

Curriculum Vitae

Dr. Ahadollah Azami (Ph.D.)



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Ph.D. in Architecture

Department of Architecture

Faculty of Architecture

Çukurova University (ÇU)

Adana, TÜRKIYE



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[Updated on January 06, 2025]

CURRICULUM VITAE

Short Biography

Ahadollah Azami (B.Sc. Arch. & M.Sc. Arch. at Azad University of Tabriz; and Ph.D. in Architecture at Eastern Mediterranean University-Northern Cyprus) is currently faculty member at department of Architecture at Çukurova University, Türkiye. He is well-experienced in teaching different courses of Architecture as a full-time faculty member since January 2024 until present by teaching the following courses (27 hours per week) at department of Architecture and department of Landscape Architecture, Çukurova University including:

M.Sc. Program of Architecture Courses:

- MM0041-Holistic Approach in Zero-Energy Building Design (3+0)
- MM564-Systematic Idea of Ecological and Sustainable Design (3+0)

B.Sc. Program of Architecture Courses:

- MIM413-Architectural Design 7 (6+2)
- MIM311-Architectural Design 5 (6+2)
- MIM298-Architectural Design 4 (6+2)
- MIM297-Architectural Design 3 (6+2)
- MIM138-Architectural Design 2 (6+2)
- MIM443-Urban Design (2+0)
- MIM338- Environment and Energy Responsive Design (2+0)
- MIM469-Building Energy Modelling and Simulation (2+0)
- MIM440-Sustainable Architectural Design (2+0)

B.Sc. Program of Landscape Architecture Courses:

- P270-Architecture (2+0)

Non-field Elective Courses:

- SD0631-Solar Architecture (2+0)
- SD0666-Low Energy Architecture (2+0)

Meanwhile, he was part-time instructor for more than ten years including fourteen universities in Iran (2004-2012, 2015-2018) and two universities in Turkish Republic of Northern Cyprus (2012-2015) including Eastern Mediterranean University (EMU) and Near East University (NEU). He was research director (2008-2009 & 2010-2011) at Azad University-Jolfa International Branch, Iran and full-time academic staff at the department of architecture (2011-2012) at this university. Anyway, he has been invited instructor at the department of interior design in Near East University (NEU) (2014-2015), Northern Cyprus. Also, he enrolled as the thesis supervisor (26 completed theses) for different master programs of *Architecture*, *Technology in Architecture*, and *Energy and Architecture* in Azad Universities of Iran as well.

On the other hand, he is the founder and CEO of IRZED (Iran Zero Energy Design) representing educational and consulting services. Afterwards, he is the board of directors for Sunergy Co. as a solar system designer and international consultant. He is the head of 'The Society of Indigenous Technologies of Iran (EFBA)' in the north-west of Iran and also the coordinator of Swedish Ecological Centre (EKOCENTRUM) in the north-west of Iran. Meanwhile, he is the member of: Iranian organization for Engineering Order of Building, AIA (The American Institute of Architects) Associate, International Solar Energy Society (ISES), American Solar Energy Society (ASES), ASHRAE, iPHA (International Passive House Association), PHC (Passive House Canada), NYPH (New York Passive House), PHCA (Passive House California), Connecticut Passive House (CTPH)-USA, IRSES, ASCE, ASME, WSSET, WSEAS, WASET and IWhA (International Water History Association). He developed the original of vernacular and ancient sustainable architectural methods to contemporary functions mainly in the field of solar architecture, sustainable and energy efficient buildings. He has a patented invention in the field of solar architecture: '*Designing of Energy Generating and Adminstrating Structures Fully Independent from General Energy Network According to Green Architecture*'.

Also, he has awarded some national and international prizes around the world, especially second place prize for PLEA 2005 in Lebanon and UNESCO Scholarship for IWhA 2005 conference in Paris.

He has delivered speeches at national and international conferences on renewable energies and published as an author or co-author over 100 scientific papers in reviewed journals or national/international conference proceedings. He published SCI paper in high-quality Journal of Building and Environment (Q1) titled: *'The Energy Performance of Building Integrated Photovoltaics (BIPV) by Determination of Optimal Building Envelope'* was selected as the candidate for the three best paper awards for this journal in 2021.

His major research interests are as following:

- Passive House Standard (PHS)
- Building Integrated Photovoltaics (BIPV)
- Zero Energy Design (ZED)
- Zero-Net Carbon Design (ZNCD)
- Passive Solar Architecture
- Artificial Intelligence (AI)
- Sustainable & Ecological Architecture
- Sustainable Energy & Technologies in Architecture
- Leadership in Energy and Environmental Design (LEED)

Moreover, he awarded the 3rd place in the 3rd gathering of the evaluation of top articles and achievements of Iranian students in Cyprus, Eastern Mediterranean University, August 2021.

His book chapter of *'The Proper Utilization of Passive Solar Energy in Residential Buildings, Northern Cyprus'* published in the *Progress in Clean Energy (Volume II): Novel Systems and Applications*, Springer International Publishing. He participated actively with the contribution of different conferences as conference chair, session chair, plenary speaker, keynote speaker, workshop chair and member of the international program/scientific committee and reviewer as well. He is the head of the international committee for the international conference on Solar Energy (ICESE) at Tehran University (2014-present) and member of advisory & executive committee of the international symposium on sustainable aviation (ISSA) (2015-present) and other reputable international conferences as well.

Also, he attended various international and national platforms as an invited speaker, performed as an editor in International Refereed Conference Proceedings in EDEB 2013, Massachusetts, USA; acted as the conference chair in the 3rd International Conference on Arts and Culture (ICAC '12) at Montreux, Switzerland (2012) and special speaker in EDEB Conference at Massachusetts, USA (2013) as well.

Furthermore, he is the international coordinator for the Journal of Solar Energy Research (JSER) publishing by the University of Tehran with ISC index and Scientific/Research grade (2015-present). He published the book titled: *'PV*SOL Software Guide'* and is the board of directors for Sunergy Co. (Sabz Energy Hoor Azar Co.) as a solar system designer and international consultant. Also, he earned more than 1500 certificates of completion for professional courses/workshops/webinars/modules.

Finally, he reviewed more than 150 scientific papers in fourteen high prestigious ISI/Scientific Journals including:

- International Journal of Renewable & Sustainable Energy Reviews (Q1 Class)
- Building and Environment (Q1 Class)
- Energy and Building-An International Journal (Q1 Class)
- Sustainable Energy Technologies and Assessments (Q1 Class)
- International Journal of Energy Research (Q1 Class)
- Building Simulation-An International Journal; (Springer Nature) (Q1 Class)
- International Journal of Ambient Energy (Q2 Class)
- International Journal of Global Warming (Q4 Class)
- International Journal of Exergy (Q4 Class)
- International Journal of Sustainable Built Environment
- Gazi University Journal of Science (Emerging Sources Citation Index (E-SCI)-Web of Science)
- ICONARP International Journal of Architecture and Planning (Emerging Sources Citation Index (E-SCI)-Web of Science)
- Sustainable Mediterranean Construction (SMC) Journal (Index: Agenzia Nazionale di Valutazione del sistema Universitario e della Ricerca - ANVUR, Scopus)
- Journal of Solar Energy Research (JSER) (ISC & Scopus Index)
- Journal of Design for Resilience in Architecture and Planning (DRArch) (TRDiZiN Index)

1. EDUCATIONAL BACKGROUND

1.1. Ph.D. / Architecture

Eastern Mediterranean University, Faculty of Architecture, Department of Architecture, North Cyprus, 2012-2021
(CGPA: 3.86 Out of 4.00)

1.1.1. Ph.D. Thesis Title:

BIPV Form Factor as an Approach for the Energy Performance of Buildings Exemplified for the Location of Tabriz (Iran)

1.2. Master & Undergraduate (Continuous Master Program) / Architecture

Azad University of Tabriz, Faculty of Architecture, Department of Architecture, Tabriz, Iran, 1996-2005

1.2.1. M.Sc. Thesis Title:

Solar Residential Complex Design in Tabriz

2. LANGUAGE SKILLS

Azeri (Native or bilingual proficiency), Persian (Native or bilingual proficiency), English (Professional working proficiency), Turkish (Fair)

3. QUALIFICATIONS

- 2021 Ph.D. in Architecture / Eastern Mediterranean University, North Cyprus
- 2010 International Reviewer for 10 prestigious ISI-SCI Journals (2010 Until Present)
- 2016 Thesis Supervisor / Azad Universities in Iran (for M.A./M.Sc. Students of Architecture; 2016 until 2018)
- 2014 Invited instructor/ Azad University-Jolfa International Branch, Iran (for M.A. Students; until Feb. 2015)
- 2012 Instructor / Eastern Mediterranean University (EMU), Famagusta, T.R. Northern Cyprus (until Feb. 2014)
- 2014 Instructor / Near East University (NEU), Nicosia, T.R. Northern Cyprus (Until September 2015)
- 2004 Instructor / Different Branches of Azad University including: Tabriz, Marand, Heris, Shabestar, Hadishahr, Sarab, Bostan Abad, Mamaghan, Azarshahr, Jolfa International Branch; Nabi-Akram University of Tabriz, Khoy Technical University, Sama University-Iran (Until September 2012; totally more than 3000 students)

4. PATENT

- 4.1. **Azami, A.**, Beheshtizadeh, D., Azizi Barenji, H., Noorpour, M., '**Designing of Energy Generating and Administrating Structures Fully Independent from General Energy Network According to Green Architecture**', 2009, (State Registry of Deeds & Real States Organizations) of Iran (Series: 85-A-008958, Registration date of patent: Jan. 21, 2009, Registered for 20 years).

5. AWARDS AND RECOGNITIONS

- 5.3. Best Scientific Article Award: 3rd Place at the 3rd Gathering of the Evaluation of Top Articles and Achievements of Iranian Students in North Cyprus, Eastern Mediterranean University, August 2021.
- 5.2. Jeffrey Cook Student Travel Award (Scholarship) to PLEA Conference, Beirut, Lebanon (2nd Paper Award in the 44th International Conference on Passive and Low Energy Architecture-PLEA 2005, Beirut, Lebanon (Arranged by Notre Dame University, SBSE Society, USA).
- 5.1. Paper Award of 1500 USD in the 4th International Conference on Water History and Civilization (IWHA 2005), UNESCO, Paris, France.

6. BOOK

- 6.1. ShirinAbadi, M.R., **Azami, A.**, Bagherzadeh, H., '**PV*SOL Software Guide**', Elmiran Publishing, Tabriz, Iran, (June 21, 2022). ISBN: 978-622-7176-09-4

7. BOOK CHAPTER

- 7.1. Mirrezaei, S. A., Sevinc, H., **Azami, A.**, 2015, 'The Proper Utilization of Passive Solar Energy in Residential Buildings, Northern Cyprus', *Progress in Clean Energy (Volume II): Novel Systems and Applications*, chapter 28, pp. 407-423, Springer International Publishing Switzerland, ISBN 978-3-319-17030-5, ISBN 978-3-319-17031-2 (eBook), ([Springer Link](#))

8. SELECTED PEER-REVIEW JOURNAL PAPERS (13 PAPERS)

- 8.13. **Azami, A.**, Sevinc, H., 'The energy performance of building integrated photovoltaics (BIPV) by determination of optimal building envelope', *Journal of Building and Environment* 199 (2021): 107856, (Journal Indexed in Science Citation Index Expanded-SCIE), (Q1) (27 Citations). ([SCI Link](#)) ([WoS Link](#)) ([PlumX Metrics](#)) ([Publons Link](#))
- 8.12. Nassehzade, Sh., **Azami, A.** (2010). 'Analyses of Iranian Garden Design Art from Landscape Architecture and Urbanism View', *International Journal of Energy and Environment*, 1(4): 9-17, WSEAS Organization Press, (6 Citations). ([Link](#)) ([Journal Link in Publons](#)) ([WoS CC Link](#)) ([Publons Link](#))
- 8.11. Ouria, M., Sayyah, S., **Azami, A.**, '*Lighting Quality and Human Health Problems in Man-made Environment*', *Journal of Solar Energy Research (JSER)*, 3(2): 155-163, April 2018, (Journal Indexed in Islamic World Science Citation Center- ISC, and Scientific/Research grade), Print ISSN: 2588-3097 ([Link](#)) ([Download Link](#))
- 8.10. Ouria, M., Sadeghi, A., **Azami, A.**, '*Domesticating Daylight via Atria*', *Journal of Solar Energy Research (JSER)*, 2(3): 21-25, September 2017, (Journal Indexed in Islamic World Science Citation Center- ISC, and Scientific/Research grade), Print ISSN: 2588-3097. ([Link](#)) ([Download Link](#))
- 8.9. Osman, M. M., Ghaffarzadeh, M., Sirous, Z., Khatibi, M., **Azami, A.** (2017). '*Analyses of Daylighting Effects on Human Health in Buildings*', *Journal of Solar Energy Research (JSER)*, 2(1): 54-59, January 2017, (Journal Indexed in Islamic World Science Citation Center- ISC, and Scientific/Research grade), Print ISSN: 2588-3097. ([Link](#)) ([Download Link](#))
- 8.8. Ouria, M., Akçay, A. Ö., Salimi, A., **Azami, A.**, (2016). '*Quantitative Investigation on Shaded Area According to the Geometry of Blue-Mosque Domes in Tabriz-Iran*', *International Journal of Architecture and Urban Planning (IJAUP)*, 26(1): 1-13, June 2016, ISSN: 2228-7337, (Journal Indexed in Islamic World Science Citation Center- ISC, ISESCO Index, SID Index), Print ISSN: 2228-7337, Online ISSN: 2383-3904. Impact Factor: 0.357. ([Link](#)) ([Download Link](#))
- 8.7. Shiraazi, K., Milani, M., Sadeghi, A., Azami, E., **Azami, A.** (2012). '*Qanat (Subterranean Canal) Role in Traditional Cities and Settlements Formation of Hot-Arid Regions of Iran*', *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, World Academy of Science, Engineering and Technology, International Science Index 67, Volume 6, Issue 7, PP. 433-438. ([Publons Link](#))
- 8.6. **Azami, A.**, Sadeghi, A., OstadiAsl, Z., Pirjani, H., Babaei, M. (2012). '*Comparative Study of Sustainable Architecture in Stairway-like Ushtobin Village, Iran*'. *International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering*, World Academy of Science, Engineering and Technology, International Science Index 6, Volume 6, Issue 7, PP. 514-520. ([Publons Link](#))

- 8.5. Salavatizadeh, Z., NahidiAzar, F., Salavatizadeh, S., Salehi, S., **Azami, A.** (2012). '*Sustainable Architecture Analyses of Walls in Miyaneh Village Houses, Iran*', International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, World Academy of Science, Engineering and Technology, International Science Index, Volume 6, Issue 7, PP 491-495. ([Publons Link](#))
- 8.4. Shiraazi, K., OstadiAsl, Z., Sheikhloie, V., **Azami, A.**, Hassanimehr, S. (2012). '*Traditionally Sustainability Analyses of Hydraulic-Architectural Bridge Construction in Iran*', International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, World Academy of Science, Engineering and Technology, International Science Index 67, Volume 6, Issue 7, PP. 521-525. ([Publons Link](#))
- 8.3. Kazemi, L., Pourmohammad, A., OstadiAsl, Z., Jahandideh, M., **Azami, A.** (2012). '*Compressed Adobe Technology Analyses as Local Sustainable Materials for Retrofitting Against Earthquake Approaching India Experiences*', International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, World Academy of Science, Engineering and Technology, International Science Index 67, Volume 6, Issue 7, PP. 526-529, DOI: 10.5281/ZENODO.1082589 ([Publons Link](#)) ([Download Link](#))
- 8.2. Rezapour, Y., Jabbarieh, A., Behfar, F., **Azami, A.**, Shamsalghorayi, A. (2012). '*Cultural Aspects Analyses in Sustainable Architecture*', International Journal of Civil, Environmental, Structural, Construction and Architectural Engineering, World Academy of Science, Engineering and Technology, International Science Index 67, Volume 6, Issue 7, PP. 551-553. ([Publons Link](#))
- 8.1. **Azami, A.** (2008). '*Intelligent Solar Architecture in Building Integrated Photovoltaics*'. International Journal of Architecture & Construction, Volume 16, PP. 36-37, Shapa: 1735-195-2. ([Publons Link](#))

9. SELECTED PEER-REVIEW CONFERENCE PAPERS (75 PAPERS)

- 9.75. **Azami, A.**, '*Building Shape Impact on BIPV Performance with Different PV Module Technologies*', Proceedings of the 4th International Conference on Photovoltaic Science and Technologies (P VCon2024), Middle East Technical University (METU), Ankara, Türkiye, July 03-05, 2024, ([Conference Link](#))
- 9.74. **Azami, A.**, '*Solar Power for a Sustainable Future: Assessing Solar Resource Availability and PV System Performance for Building Decarbonizaon in Turkey*', Proceedings of the 4th International Conference on Photovoltaic Science and Technologies (P VCon2024), Middle East Technical University (METU), Ankara, Türkiye, July 03-05, 2024, ([Conference Link](#))
- 9.73. **Azami, A.**, '*Building Shape Impact on Energy Performance and Carbon Emissions*', Proceedings of the 12th Global Conference on Global Warming (GCGW-2024), Haran University, Sanliurfa, Türkiye, May 16-19, 2024, Electronic ISBN: 978-605-70717-7-4. ([Proceedings Link](#))
- 9.72. **Azami, A.**, Sevinc, H., Akbarzadeh, N. '*BIPV Approach in Modeling and Re-designing of Tabriz International Airport, Iran*', Proceedings of the International Conference on Photovoltaic Technologies (PVCON 2018), Middle East Technical University, Ankara, Turkey, July 04-06, 2018, Electronic ISBN: 978-1-5386-7538-0. (IEEE Indexed Conference) ([WoS Link](#)) ([IEEE Link](#)) ([Publons Link](#)) ([Conference Link in Pubblons](#))
- 9.71. ShirinAbadi, M.R., **Azami, A.** '*The Feasibility of a Photovoltaic and Grid Hybrid Power Plant to Supply Energy of Water Pumping Station Tabriz-Iran*', Proceedings of the International Conference on Photovoltaic Technologies (PVCON 2018), Middle East Technical University, Ankara, Turkey, July 04-06, 2018. Electronic ISBN: 978-1-5386-7538-0. (IEEE Indexed Conference) ([WoS Link](#)) ([IEEE Link](#)) ([Publons Link](#)) ([Conference Link-Publons](#))
- 9.70. Kimya, F., Tahermoghaddas, P., Mousaei, D., **Azami, A.**, '*Production Analyses of Glazed Bricks during Ilamid Times in Iran*', Proceedings of the 3rd International Conference on CULTURAL HERITAGE and TOURISM (CUHT '10): Latest Trends on Cultural Heritage and Tourism, Corfu Island, Greece, July 22-24, 2010, WSEAS Press, pp. 197-202, ISBN: 978-960-474-205-9. ([WoS Link](#)) ([Publons Link](#)) ([Conference Link in Pubblons](#))

- 9.69. Yamini, S., Tajmehr, Sh., Najafgholipour, N., Abdollahzadeh Bina, F., **Azami, A.**, 'A Survey on Completion Process of Masonry Domestic Technology of Building Forms in Iran's Cultural Heritage', Proceedings of the 3rd International Conference on CULTURAL HERITAGE and TOURISM (CUHT '10): Latest Trends on Cultural Heritage and Tourism, Corfu Island, Greece, July 22-24, 2010, WSEAS Press, pp. 203-208, ISBN: 978-960-474-205-9. ([WoS Link](#)) ([Publons Link](#)) ([Conference Link in Publons](#))
- 9.68. Nassehzade Tabriz, Sh., Mahdavi Tabatabaei Fard, F., Asl Asadi, V., **Azami, A.**, Niyazi, Z., 'Studying Local Standards of Masonry Structure of Traditional Bazaars in Iranian Cultural Heritage', Proceedings of the Latest Trends on Cultural Heritage and Tourism: 3rd International Conference on CULTURAL HERITAGE and TOURISM (CUHT '10), Corfu Island, Greece, July 22-24, 2010, WSEAS Press, pp. 209-214, ISBN: 978-960-474-205-9. ([Download Link](#)) ([WoS Link](#)) ([Publons Link](#)) ([Conference Link in Publons](#))
- 9.67. **Azami, A.**, Yasrebi, S.H., 'Analyses of Maragheh Tile School One of the Most Effective Factors in Cultural Heritage Formation of Maragheh Architecture during Historical Periods', Proceedings of the 1st International Conference on CULTURAL HERITAGE and TOURISM (CUHT '08), Heraklion, Crete Island, Greece, July 22-24, 2008, WSEAS Press, pp. 136-141, ISBN: 978-960-6766-89-3. [In accordance with DIWEB '09: PROCEEDINGS OF THE 9th WSEAS INTERNATIONAL CONFERENCE ON DISTANCE LEARNING AND WEB ENGINEERING's] (ISI-Thomson Reuters Indexed Conference) ([Publons Link](#)) ([WoS Link](#)) ([Proceedings Link in Publons](#))
- 9.66. Sarkan Dizaji, R., **Azami, A.**, Hariri, M., 'Energy Saving in a High Insulated House in Iran', Proceedings of the 5th International Conference on ENVIRONMENT, ECOSYSTEMS and DEVELOPMENT (EED '07), Puerto De La Cruz, Tenerife, Canary Islands, Spain, December 14-16, 2007, WSEAS Press, pp. 191-194, ISBN: 978-960-9766-20-6. ([WoS Link](#)) ([Publons Link](#)) ([Conference Link in Publons](#))
- 9.65. Rajabpoor, M., **Azami, A.**, 'Architectural Design of the Center for Strategic Environmental Studies of Northwest Iran in Tabriz City Approaching Sustainable Architecture', International Conference on Civil Engineering, Architecture and Urban Management, Tehran, Iran, December 19, 2018.
- 9.64. Rajabpoor, M., **Azami, A.**, 'BIPV Feasibility in Designing the Center for Strategic Environmental Studies of Tabriz, Iran', Proceedings of the World Renewable Energy Congress - 18 & Exhibition, Kingston University, London - UK, July 30-August 03, 2018.
- 9.63. Mohammadkhani, S., **Azami, A.**, 'The Compound Effect of Physical Features of Skin Façade and Natural Ventilation Pattern on Energy Consumption in Residential Complex in Tehran', Proceedings of the WORLD RENEWABLE ENERGY CONGRESS - 18 & Exhibition, Kingston University, London - UK, July 30-August 03, 2018.
- 9.62. Deroghar, M., **Azami, A.**, 'Feasibility of Passive Solar System Adaptation in Climatic Architecture at Islamic Azad University of Bonab, Iran', Proceedings of the 16th International Conference on Clean Energy (ICCE-2018), Famagusta, N. Cyprus, May 9-11, 2018. ([Download Link](#))
- 9.61. Kaffashi, B., **Azami, A.**, 'Analyses of Sustainability Requirements of Solar Passive Defense in Diplomatic Buildings', Proceedings of the 16th International Conference on Clean Energy (ICCE-2018), Famagusta, N. Cyprus, May 9-11, 2018. ([Download Link](#))
- 9.60. Kaffashi, B., **Azami, A.**, 'Designing the State Department Representative Office Approaching Sustainable Passive Defense in Tabriz-Iran', Proceedings of the 16th International Conference on Clean Energy (ICCE-2018), Famagusta, N. Cyprus, May 9-11, 2018. ([Link](#))
- 9.59. Zare Golakhor, F., **Azami, A.**, 'Designing Solar Villa Complex in Cold and Dry Climate of Vali-e-Asr Town, Marand', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.58. Zare Golakhor, F., **Azami, A.**, 'Comparative Analyses of Passive Solar Systems in Designing Villa Complex in Cold and Dry Climate of Iran', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))

- 9.57. Sharafloou, H., **Azami, A.**, '*Comparative Analyses of Energy Efficient Educational Buildings in Cold-Dry Climate Passive Solar Criteria*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017.
- 9.56. Alizadeh Hesar, H., **Azami, A.**, '*Solar Energy Approaches in Sustainable Commercial Centers' Design*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.55. Alizadeh Hesar, H., **Azami, A.**, '*Commercial Center Design in Aras Free Zone Approaching Solar Energy*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.54. Pourmajidi, M., **Azami, A.**, '*Investigating Sustainable Architecture Approaches in Institutes and Renewable Energy Research Centers*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.53. Seifollahi Khamneh, M., **Azami, A.**, '*Analyses of Architecture and Eco-Tourism on Sustainable Social Development*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.52. Babazadeh, S., Elmi, M., Elmi, Me., **Azami, A.**, '*Designing Sustainable Recycling Research Center for Building Materials*', Proceedings of the International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. ([Link](#))
- 9.51. Hajavi, Gh., **Azami, A.**, '*Designing of Artistic-Cultural Complex in Hashtrud Approaching Sustainable Architecture*', Proceedings of the 4th International Congress on Civil Engineering, Architecture and Urban Development 'ICSAU 2016', Shahid Beheshti University, Tehran, Iran, December 27-28, 2016. ([Link](#))
- 9.50. Malekoltojari, A.R., Malekoltojari, R., **Azami, A.**, '*Analyses of Insolation and Shading Effects in High-rise Building*', Proceedings of the 3rd International Conference and Exhibition on Solar Energy (ICESE 2016), Tehran University, Tehran, Iran, September 05-06, 2016.
- 9.49. Osman, M. M., Rajabpoor, M., **Azami, A.**, '*The Effect of Form in Passive Solar Architecture Approaching Energy Efficiency in Rector's Office Building of EMU, North Cyprus*', Proceedings of the 8th International Ege Energy Symposium & Exhibition, Afyon Kocatepe University, Afyonkarahisar, Turkey, May 10-13, 2016.
- 9.48. Saveh Shemshaki, M., Rajabpoor, M., **Azami, A.**, '*PV Integration with Trombe Wall in Sustainable Buildings*', Proceedings of the 8th International Ege Energy Symposium & Exhibition, Afyon Kocatepe University, Afyonkarahisar, Turkey, May 10-13, 2016.
- 9.47. Ghaderi, S., **Azami, A.**, Ghaderi, M. A., Ghaderi, B., '*Analyses the Form Effect in Passive Solar Architecture Approaching Solar Architecture Energy Efficiency*', Proceedings of the 2nd International Conference and Exhibition on Solar Energy (ICESE-2015), Tehran University, Tehran, Iran, August 30-31, 2015.
- 9.46. Ghaffarzadeh, M., Saveh Shemshaki, M., **Azami, A.**, '*Optimization and Conservation Energy by Using Passive Trombe Wall*', Proceedings of the 2nd International Conference and Exhibition on Solar Energy (ICESE 2015), Tehran University, Tehran, Iran, August 30-31, 2015.
- 9.45. **Azami, A.**, Mirrezaei, S.A., Sevinc, H., Azami, E., Saveh Shemshaki, M., '*Feasibility of Solar Energy Utilization in Earth-Sheltered Constructions for Energy Efficiency*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 408-418.
- 9.44. **Azami, A.**, Mohammadkhani, S., Azami, E., Zamzami, M. B., Maleki, P., Cyrus, Z., '*Energy Efficient Office Building Design in Cold and Dry Climate of Tabriz City, Iran*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 481-489.

- 9.43. Ghaderi, S., **Azami, A.**, Azami, E., Cyrus, Z., '*Passive Solar Energy Efficiency Analyses in Commercial Buildings; Case study: Onder Market in Famagusta City, Northern Cyprus*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 490-497.
- 9.42. **Azami, A.**, Mirrezaei, S.A., Azami, E., Sevinc, H., Saveh Shemshaki, M., '*Analyses of Architectural Forms Effects for PV Integration in Buildings*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 498-504.
- 9.41. Zamzami, M. B., Mohammadkhani, S., **Azami, A.**, Rajabpoor, M., Maleki, P., '*Sustainable Hotel Design in Cold and Dry Climate of Marand City, Iran*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 505-513.
- 9.40. **Azami, A.**, Ouria, M., Cyrus, Z., Azami, E., '*Double Skin Facades Integrated Photovoltaics*', Proceedings of the International Conference 'SOLARTR 2014', Izmir, Turkey, November 19-21, 2014, pp. 520-524.
- 9.39. Mohammad Rajabpoor, **Azami, A.**, Azami, E., '*A Survey on Asbaad (a Kind of Windmill) System as Vernacular Architectural Wind Construction in Iran*', Proceedings of the 7th International Seminar on Vernacular Settlements, Re-assessing Vernacular Architecture: Theories and Practices Traditions, Identities and Globalization, Istanbul Technical University, Istanbul, Turkey, October 15-17 2014.
- 9.38. Ouria, M., Gurdalli, H., Salimi, A., **Azami, A.**, '*Forms and Their Traits Role on Its Sustainability in Blue-Mosque of Tabriz-Iran*', Proceedings of the International Conference on Advanced Methods of Design and Construction in Context-oriented Architecture, Tabriz, Iran October 8-9, 2014.
- 9.37. Ozsavas, A., Ouria, M., Salimi, A., **Azami, A.**, '*How to Orientate Buildings in Different Climates; Case-Study of Iranian Traditional Architecture*', Proceedings of the International Conference on Advanced Methods of Design and Construction in Context-oriented Architecture, Tabriz, Iran October 8-9, 2014.
- 9.36. Ouria, M., Salimi, A., **Azami, A.**, '*Numerical Comparison of Shadow Range with Solar-Time Parameter between Domatic and Cubic Forms*', Proceedings of the International Conference on Advanced Methods of Design and Construction in Context-oriented Architecture, Tabriz, Iran October 8-9, 2014.
- 9.35. Zoroufchi, S., Azami, E., Gholizadeh, R., **Azami, A.**, '*Sustainable Residential Complex Design Between Kandovan and Hilevar Villages in Cold & Dry Climate, Iran*', Proceedings of the 13th International Conference on Clean Energy (ICCE 2014), Istanbul, Turkey, June 8-12, pp. 1807-1819, ISBN: 978-605-64806-0-7.
- 9.34. **Azami, A.**, Aghajani, N., Atikol, U., Azami, E., '*Energy Management Analyses of a Solar House in a Cold and Dry Climate of Tabriz City, Iran*', Proceedings of the 13th International Conference on Clean Energy (ICCE 2014), Istanbul, Turkey, June 8-12, pp. 806-811, ISBN: 978-605-64806-0-7.
- 9.33. Mirrezaei, S.A., Sevinç, H., **Azami, A.**, '*Proper Utilization of Passive Solar Energy in Residential Buildings, Northern Cyprus*', Proceedings of the 13th International Conference on Clean Energy (ICCE 2014), Istanbul, Turkey, June 8-12, pp. 846-854, ISBN: 978-605-64806-0-7.
- 9.32. Tahermoghaddas, P., Fathipour, R., **Azami, A.**, '*Daylighting Analyses on Human Health in Buildings*', Proceedings of the 13th International Conference on Clean Energy (ICCE 2014), Istanbul, Turkey, June 8-12, pp. 3542-3551, ISBN: 978-605-64806-0-7.
- 9.31. Fathipour, R., **Azami, A.**, Zamzami, M.B., '*Experimental Approach to the Education of Sustainable Architecture in Design Studio Courses in Iran*', Proceedings of the 13th International Conference on Clean Energy (ICCE 2014), Istanbul, Turkey, June 8-12, pp. 3552-3558, ISBN: 978-605-64806-0-7.

- 9.30. Jahanara, A., Sevinç, H., **Azami, A.**, '*Architectural Quality Approaching Integration with Solar Thermal Collectors and Photovoltaics*', Proceedings of the 12th International Conference on Sustainable Energy Technologies (SET 2013), Hong Kong, China, August 26-29, 2013, The Hong Kong Polytechnic University, pp. 1996-1999, ISBN: 978-988-15439-5-0.
- 9.29. **Azami, A.**, Jahanara, A., Sevinç, H., Sadeghi, A., Aghajani, N., '*Integration Feasibility of Photovoltaic in Rectors' Office, EMU, Famagusta, Northern Cyprus*', Proceedings of the 12th International Conference on Sustainable Energy Technologies (SET 2013), Hong Kong, China, August 26-29, 2013, The Hong Kong Polytechnic University, pp. 2010-2016, ISBN: 978-988-15439-5-0.
- 9.28. Abdaei, K., **Azami, A.**, '*Sustainability Analyses of Passive Cooling Systems in Iranian Traditional Buildings Approaching Wind-Catchers*', Proceedings of the 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13), Cambridge, MA, USA, January 30-February 1, 2013, , WSEAS Press, pp. 124-129, ISBN: 978-1-61804-157-9.
- 9.27. Hariri, M.T.R., Rajabpour, M., **Azami, A.**, Akbarisani, F., '*Energy Efficiency Analyses through Ground Thermal Capacitor System - Case Studies: Two Sustainable Buildings in Vienna and Tehran*', Proceedings of 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13), Cambridge, MA, USA, January 30-February 1, 2013, WSEAS Press, pp. 158-163, ISBN: 978-1-61804-157-9.
- 9.26. **Azami, A.**, ZarneshaniAsl, T., AkbariSani, F., Aghajani, N., Zamzami, M.B., '*Entrance Concept & Content Analyses in Traditional Houses of Iran*', Proceedings of the International Conference on Theory of Architecture, (ARCHTHEO '12), DAAKAM, Mimar Sinan Fine Arts University, Istanbul, Turkey, October 31-Nov. 2, 2012, Vol. 2, pp. 288-296, ISBN: 978-1-61804-157-9.
- 9.25. Soleimanyjay, F., Fathipour, R., BorhanSadigh, A., **Azami, A.**, '*Analyses of Sustainable Rock Architecture in Kandowan Village, Iran*', Proceedings of the 6th International Conference on Energy and Development - Environment - Biomedicine (EDEB '12), Vouliagmeni Beach, Athens, Greece, March 7-9, 2012, WSEAS Press, pp. 67-72, ISBN: 978-1-61804-075-6.
- 9.24. Fathipour, R., Soleimanyjay, F., **Azami, A.**, '*Sustainability Analyses of Traditional Public Bathrooms in Iran, Case Study: Tabriz City Bathrooms*', Proceedings of the 6th International Conference on Energy and Development - Environment - Biomedicine (EDEB '12), Vouliagmeni Beach, Athens, Greece, March 7-9, 2012, WSEAS Press, pp. 73-78, ISBN: 978-1-61804-075-6.
- 9.23. Mehmani, R., **Azami, A.**, Sadeghi, A., '*Sustainable Energy Lessons from Domestic Architecture Of Rock Villages of Cold-Dry Regions of Iran (Case Studies: Benakohul, Samarkhazan and Hilehvar Villages)*', Proceedings of the 6th International Green Energy Conference (IGEC-06), Eskişehir, Anatoli, Turkey, June 5-9, 2011, Anadolu University Press, pp. 741-748, ISBN: 978-605-89885-3-8. (Link)
- 9.22. **Azami, A.**, OstadiAsl, Z., Eftekhari, F., Salehi, S.H., MoradTajalli, M., '*Analyses of Natural Cooling Energy Efficiency in Sustainable Architecture of Iranian Traditional Ice Pits (Yakh-chals)*', Proceedings of the 6th International Green Energy Conference (IGEC-06), Eskişehir, Anatoli, Turkey, June 5-9, 2011, Anadolu University Press, pp. 749-755, ISBN: 978-605-89885-3-8.
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- 9.16. Nassehzade Tabriz, Sh., Jahandideh, M., Douzdouzani, Y., **Azami, A.**, Aliyev, F., '*Analyses of Badgir as a Sustainable Ventilation System in Traditional Iranian Buildings*', Proceedings of the ISES Solar World Congress 2009 on 'Renewable Energy Shaping Our Future', (SWC 2009), Johannesburg, South Africa, October 11-14, 2009, pp. 1542-1547.
- 9.15. **Azami, A.**, Khiali, K., '*Architecture of Sustainable Passive Defense Based on Intelligent Designing in Protection of Industries' Buildings*', Proceedings of the 2nd Specialized Conference on Passive Defense and Sustainable Structures, University of Isfahan, Isfahan, Iran, May 25, 2009, pp. 45-58.
- 9.14. Ashrafian, T., **Azami, A.**, '*Analyses of Vernacular Technology in the Architecture of Anahita Temples*', Proceedings of the 2nd National Conference on Iranian Vernacular Technologies, University of Science & Technology, Tehran, Iran, May 19-20, 2009, pp. 175-188.
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- 9.12. **Azami, A.**, Salehipour, A., Azarpour, R., '*A Survey on Decorative Art in Islamic Architecture of Iran*', Proceedings of the 6th International Conference on Art & Humanities (HICAU 2008), Honolulu, Hawaii, USA, January 11-14, 2008, pp. 1270-1284, ISSN: 1541-5899.
- 9.11. Mahdavi Tabatabaei, F., **Azami, A.**, Motamadnia, A., '*Studying Shiraz School in Buildings in Karim Khan Zand's Era*', Proceedings of the National Great Congress on Zandieh, Shiraz University, Shiraz, Iran, May 29-31, 2008, Ghalamkadeh Press, p. 137.
- 9.10. Mahdavi Tabatabaei, F., **Azami, A.**, Akhlaghi, L., '*Comparative Study of Regulations of Buildings with Optimal Energy Consumption in European Countries*', Proceedings of the 1st National Conference on National Regulations of Buildings, Shiraz, Iran, December 6-7, 2007, pp. 92 -101.
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- 9.6. Abizadeh, E., **Azami, A.**, Imen, R., Faradji, S., '*New Technologies in Construction of Sports Stadiums*', Proceedings of the 1st National Conference on City and Sport, Tehran, Iran, March 3-4, 2006, pp. 1-8.
- 9.5. **Azami, A.**, '*Control of Water and the First Irrigation Civilization in Ancient Iran (Case study: Water Agent Collection of Ancient Shoushtar City)*', Proceedings of the 4th International IWHA Conference 2005-Water and Civilization, UNESCO, Paris, France, December 1-3, 2005, pp. 6-7 (Abstract Book), pp. 1-14 (Full Proceedings).

- 9.4. **Azami, A.**, Yasrebi., S.H., Salehipour, A., '*Climatic Responsive Architecture in Hot and Dry Regions of Iran*', Proceedings of the 1st. International Conference PASSIVE AND LOW ENERGY COOLING FOR THE BUILT ENVIRONMENT (PALENC 2005), Santorini, Greece, May 19-21, 2005, Vol. 2, pp. 613-617, ISBN: 960-88153-3-9.
- 9.3. **Azami, A.**, '*Using of Photovoltaic Systems in Architecture*', Proceedings of the 1st International Conference on Eco Energy (ECOE 2004), Urmia University, Urmia, Iran, September 1-3, 2004, pp. 44-57.
- 9.2. Kazempour, A., **Azami, A.**, '*Smart Solar Architecture in Building Integrated Photovoltaics*', Proceedings of the 4th International Conference on Fuel Conservation in Buildings, IRIB Int'l Conference Center, Tehran, Iran, March 3-4, 2005, pp. 111-119.
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10. SUBMITTED IN CONFERENCES: ONLY ABSTRACTS PUBLISHED (20 PAPERS)

- 10.20. **Azami, A.**, Eftekhari Ranjbar, S., '*BIPV Opportunities and Performance in the Vernacular Buildings' Envelopes of Hot-Dry and Cold-Dry Climates of Iran*', Proceedings of the International Conference on Photovoltaic Technologies (PVCON 2022), Middle East Technical University, Ankara, Turkey, July 05-07, 2022. ([Link](#))
- 10.19. Eftekhari Ranjbar, S., **Azami, A.**, '*PV Incorporation into the Building Thermal Envelope and the New Certification Classes for Passive House Standard*', Proceedings of the International Conference on Photovoltaic Technologies (PVCON 2022), Middle East Technical University, Ankara, Turkey, July 05-07, 2022. ([Link](#))
- 10.18. **Azami, A.**, '*Energy-Efficient Building Form and BIPV Performance*', Proceedings of the 2nd International Conference on Photovoltaic Science and Technologies (PVCon2020), Ankara, Turkey, November 30-December 02, 2020. ([Link](#))
- 10.17. **Azami, A.**, '*Energy Based Architecture in Designing Airport Buildings*', Proceedings of the International Symposium on Sustainable Aviation 2016, Istanbul, Turkey, May 29-June 01, 2016.
- 10.16. **Azami, A.**, Sevinc, H., '*Feasibility of Building Integrated Photovoltaics (BIPV) for Energetic Contribution in Turkish Airports of Sabiha Gokcen, Esenboga and Ercan Airport in North Cyprus*', Proceedings of the International Symposium on Sustainable Aviation 2016, Istanbul, Turkey, May 29-June 01, 2.16.
- 10.15. **Azami, A.**, Osman, M. M., Shabani, F., '*Feasibility of PV Integration in Ataturk International Airport of Istanbul, Turkey*', Proceedings of the International Symposium on Sustainable Aviation 2015, Istanbul, Turkey, May 31-June 03, 2015, (Abstract Book: p. 67), ISBN: 978-605-89885-4-5.
- 10.14. Ouria, M., **Azami, A.**, '*Thermal Analyses of Cubic Form Terminals; Computing Convection Type of Heat Transfer According to the Windward in Tabriz-Iran*', Proceedings of the International Symposium on Sustainable Aviation 2015, Istanbul, Turkey, May 31-June 03, 2015, (Abstract Book: p. 69), ISBN: 978-605-89885-4-5.
- 10.13. **Azami, A.**, Ouria, M., '*Developing Integrated Solar Architecture Strategies for Sustainable Airports*', Proceedings of the International Symposium on Sustainable Aviation 2015, Istanbul, Turkey, May 31-June 03, 2015, (Abstract Book: p. 73), ISBN: 978-605-89885-4-5.
- 10.12. Khaiyatkolkari, N., Najafzadeh, A., **Azami, A.**, '*Archi-Cultural Heritage Restoration of Silkroad Approaching Tabriz Historical Baazar*', Proceedings of the 2nd International Conference on Archi-Cultural Translations through the Silkroad (iaSU 2011), Istanbul, Eskişehir, Anatoli, Turkey, March 16-18, 2011, Bahçeşehir University Press, (Extended Abstract).

- 10.11. **Azami, A.**, Akhlaghi, L., '*Heritage Landscape Revitalisation of Saint Stepanous Church in Iran*', Proceedings of the International Symposium on REVITALISING BUILT ENVIRONMENTS, Requalifying Old Spaces for New Uses, Istanbul Technique University, Istanbul, Turkey, October 12-16, 2009, Extended Abstract), ISBN: 978-975-561-359-8.
- 10.10. Doozdoozani, Y., **Azami, A.**, '*Life Harmony Revitalisation in Cave Like Houses of Meimand Village*', Proceedings of the International Symposium on REVITALISING BUILT ENVIRONMENTS, Requalifying Old Spaces for New Uses, Istanbul Technique University, Istanbul, Turkey, October 12-16, 2009, Extended Abstract), ISBN: 978-975-561-359-8.
- 10.9. Hasanimehr, Sh., **Azami, A.**, '*Revitalization Analysis of Kariz in the Underground City of Kish*', Proceedings of the International Symposium on REVITALISING BUILT ENVIRONMENTS, Requalifying Old Spaces for New Uses, Istanbul Technique University, Istanbul, Turkey, October 12-16, 2009, Extended Abstract), ISBN: 978-975-561-359-8.
- 10.8. Nasehzadeh, Sh., Shamsalghorayi, A., **Azami, A.**, Aliyev, F., '*Revitalization Analysis of Rock Architecture Spaces in Kandovan Village of Iran*', Proceedings of the International Symposium on REVITALISING BUILT ENVIRONMENTS, Requalifying Old Spaces for New Uses, Istanbul Technique University, Istanbul, Turkey, October 12-16, 2009, Extended Abstract), ISBN: 978-975-561-359-8.
- 10.7. Mahdavi Tabatabaei Fard, F., Ranji Dizaji, A., Douzdouzani, Y., **Azami, A.**, '*Daylighting Design in Sustainable Solar Architecture*', Proceedings of the ISES Solar World Congress 2009 on 'Renewable Energy Shaping Our Future', (SWC 2009), Johannesburg, South Africa, October 11-14, 2009, P. 1401. (Extended Abstract)
- 10.6. **Azami, A.**, '*Studying the necessity of Compiling Standards for Structures Resistant Against Storm in Iranian National Regulations of Building*', Proceedings of the 1st National Conference on National Regulations of Buildings, Shiraz, Iran, December 6-7, 2007, p. 34 (Abstract Book).
- 10.5. **Azami, A.**, '*Comparison of City Order and Texture in Buyid and Seljukian Period, 11th-13th Centuries*', Proceedings of the International Medieval Cities Congress 2007, Leeds, UK, July 9-12, 2007, (Abstract Book), ISBN: 960-88153-3-9.
- 10.4. Mahdavi Tabatabaei, F., **Azami, A.**, Motamadnia, A., '*Studying Architecture & Urban Development of Sheikh Bahaei*', Proceedings of the 1st. International Congress on Sheikh Bahaei Memorandum, Isfahan, Iran, April 20-21, 2007, (Abstract Book).
- 10.3. **Azami, A.**, '*Green Architecture in Designing new Towns*', Proceedings of the International Conference on New Towns (ICNT 2005), Tehran, Iran, May 2-6, 2005, (Abstract Book).
- 10.2. **Azami, A.**, '*Intelligent Solar Architecture in Building Integrated Photovoltaics*', Proceedings of Civil, Architecture and Urban Planning Conference of Kerman, Kerman, April 16-18, 2005, (Abstract Book).
- 10.1. **Azami, A.**, '*Designing Houses with Intelligent Solar Energy*', Proceedings of Civil, Architecture and Urban Planning Conference of Kerman, Kerman, April 16-18, 2005, (Abstract Book).

11. EDITORSHIP

11.1. Editorial Board Member (International Coordinator)

11.1.1. *Journal of Solar Energy Research (JSER)* [Islamic World Science Citation Center (ISC) Index, Scientific/Research grade] [September 2015 until present] ([Link](#))

11.2. Editorship in International Refereed Conference Proceedings

11.2.5. *Associated Editor in Proceedings of the 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13)*, Cambridge, MA, USA, January 30-February 1, 2013. (ISBN: 978-1-61804-157-9)

11.2.4. *Associated Editor in Proceedings of the 1st International Conference on POWER ENGINEERING, ENERGY and ELECTRICAL SERVICES (PEED '13)*, Cambridge, MA, USA, January 30-February 1, 2013.

11.2.3. *Associated Editor in Proceedings of the 1st International Conference on CLIMATE CHANGE (CLICH '13)*, Cambridge, MA, USA, January 30-February 1, 2013.

11.2.2. *Associated Editor in Proceedings of the 4th International Conference on THEORETICAL and APPLIED MECHANICS (TAM '13)*, Cambridge, MA, USA, January 30-February 1, 2013.

11.2.1. Editor in the book of *ADVANCES in ENVIRONMENT, COMPUTATIONAL CHEMISTRY and BIOSCIENCE* (ISBN: 978-1-61804-147-0) including:

11.2.1.5. *The Proceedings of the 4th International Conference on Environment, Ecosystems and Development (EED '12)*, Montreux, Switzerland December 29-31, 2012.

11.2.1.4. *The Proceedings of the 6th International Conference on Computational Chemistry (COMPUCHEM '12)*, Montreux, Switzerland December 29-31, 2012.

11.2.1.3. *The Proceedings of the 8th International Conference on Cellular and Molecular Biology, Biophysics and Bioengineering (BIO '12)*, Montreux, Switzerland December 29-31, 2012.

11.2.1.2. *The Proceedings of the 3rd International Conference on Bioscience and Bioinformatics (ICBB '12)*, Montreux, Switzerland December 29-31, 2012.

11.2.1.1. *The Proceedings of the 3rd International Conference on Arts and Culture (ICAC '12)*, Montreux, Switzerland December 29-31, 2012.

12. REVIEW FOR JOURNALS (Associated with Buildings-Energy-Environment)

12.15. *Renewable & Sustainable Energy Reviews*, Master Journal, SCI-Expanded Index (Q1 Class), Online ISSN: 1879-0690, 5-Year Impact Factor: 16.9 ([Link](#)) (18 Papers Reviewed: April 2017 until Present)

12.14. *Building and Environment* Master Journal, SCI-Expanded Index (Q1 Class), 5-Year Impact Factor: 7.7 ([Link](#)) (64 Papers Reviewed: October 2019 until Present)

- 12.13. *Energy and Buildings*
Master Journal, SCI-Expanded Index (Q1 Class), 5-Year Impact Factor: 7.129 ([Link](#))
(33 Papers Reviewd: June 2011 until February 2017), (41 Papers Reviewd: February 2017 until Present)
- 12.12. *International Journal of Energy Research*
Master Journal, SCI-Expanded Index (Q1 Class), Impact Factor: 4.672 ([Link](#))
(2 Papers Reviewd: June 2014 until Present)
- 12.11. *Building Simulation-An International Journal*
Master Journal, SCI-Expanded Index (Q1 Class), 5-Year Impact Factor: 3.326, (Springer Nature) ([Link](#))
(1 Paper Reviewd: January 2022 until Present)
- 12.10. *Sustainable Energy Technologies and Assessments*
Master Journal, SCI-Expanded Index (Q1 Class), 5-Year Impact Factor: 8 ([Link](#))
(15 Papers Reviewd: October 2021 until Present)
- 12.9. *International Journal of Ambient Energy*
E-Sci, Web of Science (Q2 Class), Cite Factor: 4.8, (Taylor & Francis) ([Link](#))
(1 Paper Reviewd: January 2022 until Present)
- 12.8. *International Journal of Global Warming (IJGW)*
Master Journal, SCI-Expanded Index (Q4 Class), 5-Year Impact Factor: 0.872 ([Link](#))
(2 Papers Reviewd: June 2014 until Present)
- 12.7. *International Journal of Exergy (IJEX)*
Master Journal, SCI-Expanded Index (Q4 Class), 5-Year Impact Factor: 1.273 ([Link](#))
(2 Papers Reviewd: June 2014 until Present)
- 12.6. *Gazi University Journal of Science*
Master Journal, Emerging Sources Citation Index (ESCI)-Web of Science ([Link](#))
(5 Papers Reviewd: March 2018 until Present)
- 12.5. *Sustainable Mediterranean Construction (SMC) Journal* (Scopus Index, ANVUR Index) (Q3 Class) ([Link](#))
(21 Papers Reviewd: September 2017 until Present)
- 12.4. *ICONARP International Journal of Architecture and Planning*
Emerging Sources Citation Index (E-SCI)-Web of Science ([Link](#))
(1 Paper Reviewd: December 2020 until Present)
- 12.3. *Journal of Solar Energy Research (JSER)*, Islamic World Science Citation Center (ISC) Index [ISC IF: 0.04] ([Link](#))
(8 Papers Reviewd: September 2015 until Present)
- 12.2. *Journal of Sustainable Bioenergy Systems (JSBS)*, Scientific Research Index ([Link](#))
(7 Papers Reviewd: October 2018 until Present)
- 12.1. *International Journal for Research and Development in Technology*, (IJRDT Impact Factor: 0.613) ([Link](#))
(5 Papers Reviewd: September 2015 until Present)

RESEARCH ACTIVITIES

13. CONFERENCE CHAIR/SESSION CHAIR/ KEYNOTE SPEAKER/WORKSHOPS CHAIR-ORGANIZER

13.1. Conference Chair

13.1.1. The 3rd International Conference on Arts and Culture (ICAC '12), Montreux, Switzerland, December 29-31, 2012. [\(Link\)](#)

13.2. Head of the International Committee

13.2.4. The 6th International Conference and Exhibition on Solar Energy 'ICESE' 2024, Tehran University, Tehran, Iran, October 22-23, 2024. [\(Link\)](#)

13.2.3. The 4th International Conference and Exhibition on Solar Energy 'ICESE' 2017, Tehran University, Tehran, Iran, November 23-26, 2017. [\(Link\)](#)

13.2.2. The 3rd International Conference and Exhibition on Solar Energy 'ICESE' 2016, Tehran University, Tehran, Iran, September 5-6, 2016. [\(Link\)](#)

13.2.1. The 2nd International Conference and Exhibition on Solar Energy 'ICESE' 2015, Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)

13.3. Session Chair

13.3.4. 3rd International Conference and Exhibition on Solar Energy (ICESE), Tehran University, Tehran, Iran, September 05-06, 2016. [\(Link\)](#)

13.3.3. 2nd International Conference and Exhibition on Solar Energy (ICESE), Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)

13.3.2. International Symposium on Sustainable Aviation 2015 (ISSA), Istanbul, Turkey, May 31-June 03, 2015. [\(Link\)](#)

13.3.1. 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13), Cambridge, MA, USA, January 30-February 1, 2013. [\(Link\)](#)

13.4. Keynote Speaker

13.4.11. '*ZED Approaching BIPV*', 2nd Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Tehran, Iran, March 2019. [\(Link\)](#)

13.4.10. '*Promoting the Energy-Efficient Architecture Approaching BIPV*', Professional Seminar for Research week Islamic Azad University, Azarshahr Branch, Azarshahr, Iran, December 24, 2018.

13.4.9. '*Zero Energy Design (ZED) Lessons Learnt from Solar Decathlon Competition*', International Conference on Civil Engineering, Architecture and Urban Management, Tehran, Iran, December 19, 2018. [\(Link\)](#)

13.4.8. '*Towards BIPV: Architectural Promotion, Energetic Performance*', International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Tehran, Iran, August 16, 2017. [\(Link\)](#)

- 13.4.7. 'Holistic Approach of Design and Construction in Building Integrated Photovoltaics', International Congress on World Contemporary Civil Engineering, Architecture and Urban Development, Dubai, UAE, March 06-07, 2017. [\(Link\)](#)
- 13.4.6. 'Sustainability Lessons Learnt from Traditional Buildings', 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13), Cambridge, MA, USA, January 30-February 1, 2013 (ISBN: 978-1-61804-157-9) [\(Link\)](#)
- 13.4.5. Professional Seminar on 'Designing Methods and Criteria for Sustainable Ecological Houses with Energy Efficiency', Construction Engineering Organization-West Azarbaijan, Urmia, Iran, February 4-5, 2015. [\(Link\)](#)
- 13.4.4. 'Energy Efficiency from Zero to Beyond Hundred in Buildings', 1st Professional Seminar on 'New Approaches and Technologies in Super-Efficient Zero Energy Building (Energy Efficiency from Zero to Beyond Hundred)', Marand, Iran, September 03, 2014.
- 13.4.3. 'New Criteria & Approaches in Designing and Construction of Zero Energy Buildings with Lessons for Iran', Professional Seminar on 'Energy Audit & Renewable Energy Utilization in Building (Green Building Pattern)', Isfahan, Iran, August 20, 2014. [\(Link\)](#) [\(Link\)](#)
- 13.4.2. 'Architecture and Energy', Department of Architecture, Sama College, Islamic Azad University-Tabriz Branch, December 01, 2014.
- 13.4.1. The 3rd Professional Seminar on 'Civil Engineering' of Young Researchers Club of Tabriz (Islamic Azad University), 2008.

13.5. Workshops Chaired /Lecturer

- 13.5.16. 'Potentiometric of Active Solar Architecture in Contemporary Buildings Integrated Photovoltaics (CBIPV)', International Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, August 16, 2017. [\(Link\)](#)
- 13.5.15. 'Solar Architecture Footprint in Designing Net Zero Energy Buildings', 3rd International Conference and Exhibition on Solar Energy 'ICESE' 2016, Tehran University, Tehran, Iran, September 05-06, 2016. [\(Link\)](#)
- 13.5.14. 'Scientific Paper Writing Method', Professional Workshop for Architecture and Graphic Faculty Members, Islamic Azad University-SAMA Institute, Tabriz, Iran, November 7-8, 2015. [\(Link\)](#)
- 13.5.13. 'Requirements for Designing Net Zero Energy Solar Houses', Department of Architecture, Selcuk University, Konya, Turkey, September 29, 2015.
- 13.5.12. 'Holistic Approach of Solar Design Methods in Zero Energy Buildings', 2nd International Conference and Exhibition on Solar Energy 'ICESE' 2015, Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)
- 13.5.11. 3rd National Conference on Climate, Building and Energy Efficiency, Isfahan, Iran, May 13-14, 2015.
- 13.5.10. 'Energy Efficient Approach in Designing Sustainable Solar Buildings', Construction Engineering Disciplinary Organization-Qazvin Province, Qazvin, Iran, February 17-18, 2015. [\(Link\)](#) [\(Link\)](#)
- 13.5.9. 'Designing Sustainable Ecological Houses', Construction Engineering Disciplinary Organization-West Azarbaijan Province, Urmia, Iran, February 08-09, 2015.

- 13.5.8. 'Architectural Context Based on Advanced Methods of Design & Construction in Building Integrated Photovoltaics (BIPV)', International Conference on Advanced Methods of Construction in Context-Oriented Architecture, Tabriz, Iran, October 9, 2014. [\(Link\)](#)
- 13.5.7. 'Designing Criteria and Requirements of Energy Efficient Ecological Houses', International Conference on Health, Safety and Environment (HSE) in Civil, Mine, Oil and Gas, Tehran, Iran, September 17-18, 2014. [\(Link\)](#)
- 13.5.6. 'New Energy Efficient Design and Construction Technologies in Solar Buildings Integrated Photovoltaics (BIPV)', 3rd National Conference on New Construction Technologies of Building Industry, Mashhad, Iran, September 11-12, 2014. [\(Link\)](#)
- 13.5.5. The International Design Week (EMU), 'Eco-House Design Workshop', Eastern Mediterranean University, Famagusta, North Cyprus, May 21-23, 2014. [\(Link\)](#)
- 13.5.4. The First Workshop on 'Modern Technologies Based on New Construction Materials', Applied Sciences Training Centre, Tabriz Municipality, Iran, January 2011.
- 13.5.3. 'Qanats: Architecture & Urban Design, Green Landscape, Protection, Management, Sustainable Development, Historical-Economical-Social Aspects', Central Municipality of Tabriz, Iran, January 26, 2008.
- 13.5.2. 'Qanats: Investigation, Protection and Renovate', East Azarbaijan General Office of Environment, Tabriz, Iran, November 20, 2007.
- 13.5.1. Presenting two Lectures in four International Workshops on Human Ecology, Alternative Energies and Eco-Cycles from EKOCENTRUM, Sweden at Islamic Azad University-Tabriz Branch (July 2006), Khoy Technical and Vocational College, (January 2007), Islamic Azad University-Azarshahr Branch (June 2009), Islamic Azad University-Hadishahr Branch (June 2010).

14. CONTRIBUTION TO THE INTERNATIONAL CONFERENCES (SCIENTIFIC COMMITTEE MEMBER/ REVIEWER FOR THE PROCEEDINGS)

- Advisory Board (International Scientific Committee) Member

- 14.48. The 6th International Conference and Exhibition on Solar Energy 'ICESE' 2024, Tehran University, Tehran, Iran, October 23-24, 2024. [\(Link\)](#)
- 14.47. 1st International-Sustainable Smart Behavior (SSB) Conference, Maltepe University, Istanbul, Turkey, September 15-16, 2023. [\(Link\)](#)
- 14.46. 10th International Conference on Sustainability, Technology and Education 2022, Virtual Event, December 14-16, 2022. [\(Link\)](#)
- 14.45. International Symposium on Electric Aircraft & Autonomus Systems, ISEAS 20, Maribor, Slovenia, July 19-21, 2022. [\(Link\)](#)
- 14.44. International Symposium on Electric Aviation and Autonomous Systems, ISEAS 20, Kyiv, Ukraine, September 22- 24, 2020.
- 14.43. International Symposium on Aircraft Technology, MRO and Operations, ISATECH20, Kyiv, Ukraine, September 22-24, 2020.

- 14.42. International Course on Unmanned Aerial Vehicle, ICUAV20, Kyiv, Ukraine, September 22-24, 2020.
- 14.41. 2nd Conference on Civil Engineering, Architecture and Urban Development of Contemporary Iran, Shahid Beheshti University, Tehran, Iran, March 2019. [\(Link\)](#)
- 14.40. International Conference on Civil Engineering, Architecture and Urban Management, University of Tehran, Tehran, Iran, December 19, 2018. [\(Link\)](#)
- 14.39. International Conference on Civil Engineering, Architecture and Urban Development of Iran Contemporary, Tehran, Iran, August 16, 2017. [\(Link\)](#)
- 14.38. International Symposium on Sustainable Aviation 2018, Rome, Italy, July 9-11, 2018. [\(Link\)](#)
- 14.37. International Symposium on Sustainable Aviation 2017, Kiev, Ukraine, September 10-13, 2017. [\(Link\)](#)
- 14.36. 6th International Conference on Sustainability, Technology and Education 2016 (STE 2016), Sydney, Australia, December 11-13, 2017. [\(Link\)](#)
- 14.35. International Conference on Civil Engineering, Architecture and Urban Development of Iran Contemporary, Tehran, Iran, August 16, 2017. [\(Link\)](#)
- 14.34. 3rd International Symposium on Sustainable Aviation 2017, Albuquerque, New Mexico, USA, July 30-August 02, 2017. [\(Link\)](#)
- 14.33. International Congress on World Contemporary Civil Engineering, Architecture and Urban Development, Dubai, UAE, March 06-07, 2017. [\(Link\)](#)
- 14.32. 5th International Conference on Sustainability, Technology and Education 2016 (STE 2016), Melbourne, Australia, December 06-08, 2016. [\(Link\)](#)
- 14.31. 8th International Conference on Urban Rehabilitation and Sustainability (URES '16), Rome, Italy, October 1-23, 2016. [\(Link\)](#)
- 14.30. 2nd International Symposium on Sustainable Aviation 2016, Istanbul, Turkey, May 29- June 01, 2016. [\(Link\)](#)
- 14.29. 4th International Conference on Sustainability, Technology and Education 2015 (STE 2015), Florianópolis, Santa Catarina, Brazil, 30 November-2 December 2015. [\(Link\)](#)
- 14.28. 3rd International Conference and Exhibition on Solar Energy (ICESE), Tehran University, Tehran, Iran, September 5-6, 2016. [\(Link\)](#)
- 14.27. 2nd International Conference and Exhibition on Solar Energy (ICESE), Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)
- 14.26. ICWMT 2015: XIII International Conference on Waste Management and Technology, San Francisco, USA, June 7-8, 2015. [\(Link\)](#)
- 14.25. 2nd National Conference on Architecture, Civil Engineering & Urban Development, Urmia, Iran, October 2015. [\(Link\)](#)
- 14.24. International Symposium on Sustainable Aviation 2015, Istanbul, Turkey, May 31- June 03, 2015. [\(Link\)](#)
- 14.23. 3rd National Conference on Climate, Building and Energy Efficiency, Isfahan, Iran, May 13-14, 2015.

- 14.22. ICEGSE 2015: XIII International Conference on Earthquake, Geological and Structural Engineering, Boston, USA, April 21, 2015. [\(Link\)](#)
- 14.21. ICBAU 2015: XIII International Conference on Building, Architecture and Urbanism, Paris, France, March 30-31, 2015. [\(Link\)](#)
- 14.20. 3rd International Conference on Sustainability, Technology and Education 2014 (STE 2014), New-Taipei City, Taiwan, 10-12 December 2014. [\(Link\)](#)
- 14.19. International Conference on Health, Safety and Environment (HSE), Tehran, Iran, August 28-29, 2014. [\(Link\)](#)
- 14.18. 2nd International Conference on Sustainability, Technology and Education 2013 (STE 2013), Kuala Lumpur, Malaysia, November 29- December 01, 2013. [\(Link\)](#)
- 14.17. 7th International Conference on ENERGY and DEVELOPMENT, ENVIRONMENT and BIOMEDICINE (EDEB '13), Cambridge, MA, USA, January 30-February 1, 2013. (ISBN: 978-1-61804-157-9)
- 14.16. 4th International Conference on EDUCATION and EDUCATIONAL TECHNOLOGIES (EET '13), Cambridge, MA, USA, January 30-February 1, 2013. [\(Link\)](#)
- 14.15. 1st International Conference on POWER ENGINEERING, ENERGY and ELECTRICAL SERVICES (PEED '13), Cambridge, MA, USA, January 30-February 1, 2013.
- 14.14. 1st International Conference on CLIMATE CHANGE (CLICH '13), Cambridge, MA, USA, January 30-February 1, 2013. [\(Link\)](#)
- 14.13. 10th WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT (HTE '12), Istanbul, Turkey, August 21-23, 2012.
- 14.12. 6th WSEAS International Conference on URBAN PLANNING and TRANSPORTATION (UPT '13), Cambridge, UK, February 20-22, 2013. [\(Link\)](#)
- 14.11. 5th WSEAS International Conference on MATERIALS SCIENCE (MATERIALS '12), Sliema, Malta, September 7-9, 2012. [\(Link\)](#)
- 14.10. 5th WSEAS International Conference on URBAN REHABILITATION AND SUSTAINABILITY (URES '12), Sliema, Malta, September 7-9, 2012. [\(Link\)](#)
- 14.9. 6th International Conference on GEOLOGY and SEISMOLOGY (GES '12), Kos Island, Greece, July 14-17, 2012. [\(Link\)](#)
- 14.8. 5th WSEAS International Conference on Environmental and Geological Science and Engineering (EG '12), Vienna, Austria, November 10-12, 2012. [\(Link\)](#)
- 14.7. 3rd International Conference on URBAN SUSTAINABILITY, CULTURAL SUSTAINABILITY, GREEN DEVELOPMENT, GREEN STRUCTURES and CLEAN CARS (USCUDAR '12), Barcelona, Spain, October 17-19, 2012. [\(Link\)](#)
- 14.6. 2nd International Conference on Researching and Education in Engineering (ICEER07), Australia, 2007
- 14.5. 3rd WSEAS International Conference on Cultural Heritage and Tourism (CUHT '10), Corfu Island, Greece, July 22-24, 2010.
- 14.4. Member of Jury Board at 1st National Conference on 'Ojan Urban Development and Architecture', BostanAbad, Iran, 2008.

- Executive Committee Member

- 14.3. International Symposium on Electric Aviation and Autonomous Systems, ISEAS 20, Kyiv, Ukraine, September 22-24, 2020.
- 14.2. International Symposium on Aircraft Technology, MRO and Operations, ISATECH20, Kyiv, Ukraine, September 22-24, 2020.
- 14.1. International Course on Unmanned Aerial Vehicle, ICUAV20, Kyiv, Ukraine, September 22-24, 2020.

15. CONTRIBUTION TO THE UNIVERSITY

Board Membership

15.1. University level

- 15.1.4. Vice-rector in Research Affairs, Islamic Azad University-Jolfa International Branch, Iran, 2008-2009 & 2010-2011.
- 15.1.3. Head of Young Researchers Club, Islamic Azad University-Jolfa International Branch, Iran, 2011-2012.
- 15.1.2. Vice-rector in Research Affairs, Islamic Azad University-Jolfa International Branch, Iran, 2007-2008.
- 15.1.1. Member of Editorial Board of Naft & Energy Magazine, 2004-2005.

15.2. Faculty level

- 15.2.2. Head of Architecture Department, Technical & Vocational College of Khoy, Iran, 2006-2007, 2011-2012
- 15.2.1. Supervisor for the “10 days Technical Trip for Architectural Students”, Technical & Vocational College of Khoy, Iran, 2006-2007.

16. CONTRIBUTION TO THE SOCIETY

16.1. NGO Activities

- 16.1.4. Co-coordinator of Swedish Ecological Centre, Gothenburg (EKOCENTRUM) in the North West of Iran (Since 2007): Arranging 4 Workshops titled: Human ecology, Eco-cycles & Alternative Energies. [\(Link\)](#)
- 16.1.3. Active member of Board, Sabz Andishan-e-Tabriz N.G.O. (An International Environmental N.G.O.), (2004-present).
- 16.1.2. Active member of Board, Environmental Activist Forum N.G.O. (An International Environmental N.G.O.), (2019-present) [\(Link\)](#)
- 16.1.1. Establishment of Branch for Iranian Society of Indigenous Technologies in North West of Iran including East Azarbaijan, West Azarbaijan Ardebil and Zanzan Provinces (2009-present).

16.2. TV & Radio Programs

16.2.1. TV Programs

16.2.1.4 Interview with Isfahan Province TV, Iran: Sheikh Bahaei and Architecture, (April 20, 2007).

16.2.1.3. Interview with IRIB 4, Iran: Sheikh Bahaei Congress, April 20, 2007.

16.2.1.2. Interview with Jam-e-Jam 4, Iran: Kaboud Mosque, Tabriz, May 2008.

16.2.1.1. Interview with West Azarbaijan Province TV, Iran: Architectural Exhibition of Amod, Khoy, (March 4, 2006).

16.2.2. Radio Programs

16.2.2.1. Interview with Quantum Program (Iran Radio 1), Super-insulated Houses, Tehran, Iran, (April 23, 2008).

17. TEACHING EXPERIENCES: 11 YEARS

17.1. Teaching at Universities

Teaching Experience in Different Universities or more than 10 years including:

17.1.12. Faculty Member, Çukrova University (ÇU), Adana, Türkiye (2024-Present)

17.1.11. Instructor, Near East University (NEU), Lefkosa (Nicosia), North Cyprus, Turkey (2014-2015)

17.1.10. Instructor, Islamic Azad University, Aras Branch, Aras Free Zone, Jolfa, Iran (2014-2015)

17.1.9. Instructor, Eastern Mediterranean University (EMU), Gazimagusa (Famagusta), North Cyprus, Turkey (2012-2014)

17.1.8. Instructor, Islamic Azad University-Azarshahr Branch, East Azarbaijan Province, Iran (2005-2012)

17.1.7. Instructor, Islamic Azad University-Sama Technical & Vocational College, East Azarbaijan Province, Iran (2004-2012)

17.1.6. Instructor, Islamic Azad University-Jolfa International Branch, East Azarbaijan Province, Iran (2006-2012)

17.1.5. Instructor, Nabi-e-Akram University, East Azarbaijan Province, Iran (2007-2011)

17.1.4. Instructor, Islamic Azad University-Tabriz Branch, East Azarbaijan Province, Iran (2007-2012)

17.1.3. Instructor, Islamic Azad University-Hadishahr Branch, East Azarbaijan Province, Iran (2008-2012)

17.1.2. Instructor, Islamic Azad University-Shabestar Branch, East Azarbaijan Province, Iran (2009-2012)

17.1.1. Member of Board, Department of Architecture, Islamic Azad University-Jolfa International Branch, East Azarbaijan Province, Iran (2011-2012)

17.2. Courses and Studios

17.2.1. Master of Architecture (M.Sc. Program) Courses (Fall 2024-2025) [at Cukurova University, Türkiye]:

- 17.2.1.2. Holistic Approach in Zero-Energy Building Design (MM013)
- 17.2.1.1. Systematic Idea of Ecological and Sustainable Design (MM564)

17.2.2. Bachelor of Science Level (B.Sc.) (Spring 2023-2024) [at Cukurova University, Türkiye]:

- 17.2.2.6. Architectural Design 4 (MIM298)
- 17.2.2.5. Architectural Design 3 (MIM297)
- 17.2.2.4. Architectural Design 2 (MIM138)
- 17.2.2.3. Environment and Energy Responsive Design (MIM338)
- 17.2.2.2. Sustainable Architectural Design (MIM440)
- 17.2.2.1. Solar Architecture (SD0631)

17.2.3. Master of Energy and Architecture (M.Sc. Level) Courses (Fall 2014-2015) [at Iranian Universities]:

- 17.2.3.3. Architecture, Climate & Comfort
- 17.2.3.2. Passive and Active Systems
- 17.2.3.1. Energy Simulation and Software Application in Buildings

17.2.4. Bachelor of Science Level (B.Sc.) (Fall 2014-2015) [at North Cyprus Universities]:

- 17.2.4.5. Sustainable Space (INAR 455)
- 17.2.4.4. Interior Lighting Design (INAR 450)
- 17.2.4.3. Energy and Environmental Issues in Design (Arch 246)
- 17.2.4.2. Ecological Issues in Design (Arch 213)
- 17.2.4.1. Introduction to Design Technology (FARC 142)

17.2.5. Bachelor of Science and Associated Level (B.Sc. & A.Sc.) (2005-2012) [at Iranian Universities]:

-Design Studio Courses:

- 17.2.5.22. Architectural Designing 5
- 17.2.5.21. Architectural Designing 4
- 17.2.5.20. Architectural Designing 3
- 17.2.5.19. Architectural Designing 2
- 17.2.5.18. Architectural Designing 1
- 17.2.5.17. Architectural Practices

-Built Environment Courses:

- 17.2.3.16. Human-Nature-Architecture;
- 17.2.3.15. Adjustment of Environmental Condition 1,
- 17.2.3.14. Adjustment of Environmental Condition2,
- 17.2.3.13. Electrical and Mechanical Installations

-Construction Courses:

- 17.2.3.12. Construction 1
- 17.2.3.11. Construction 2
- 17.2.3.10. Construction Elements and Details 2
- 17.2.3.9. Statics 1
- 17.2.3.8. Statics 2
- 17.2.3.7. Industrial Production & Design
- 17.2.3.6. Site Organization Management

-Other Courses:

- 17.2.3.5. World Architecture
- 17.2.3.4. Technical Language (English for Architecture)
- 17.2.3.3. Photography and Modeling
- 17.2.3.2. Photography 1 (Interior Designing)
- 17.2.3.1. Surveying Historical Buildings (Rolove)

18. THESIS SUPERVISION (Post-Graduate Level)

26 Managed Theses (Architecture, Technology of Architecture, Energy and Architecture):

- 18.26. Saber, Sahar, M.Sc. in Architecture, '**Designing of Children's Home in Tabriz Approaching Sustainable Architecture**', Islamic Azad University-Marand Branch, Iran, September 15, 2018.
- 18.25. Owliyaeei, Seyyede Zahra, M.Sc. in Architecture, '**Designing Sustainable Residential Towers in Cold-Dry Climate of Tabriz**', Islamic Azad University-Jolfa International Branch, Iran, September 11, 2018.
- 18.24. Hosseini Arbatani, Mahdiye Sadat, M.Sc. in Architecture, '**Designing the Cultural Complex Park in Tabriz by Using Eco-tech Architecture**', Islamic Azad University-Jolfa International Branch, Iran, September 04, 2018.
- 18.23. Hajilou, Tahmineh, M.Sc. in Architecture, '**Designing Neonatal Children's Rehabilitation Center Approaching Sustainable Environmental Psychology-Sustainable Architecture in Hamedan**', Islamic Azad University-Heris Branch, Iran, September 02, 2018.
- 18.22. Kamali, Elaheh, M.Sc. in Architecture, '**Designing Science and Technology Park in Tabriz Approaching Sustainable Architecture**', Islamic Azad University-Heris Branch, Iran, April 25, 2018.
- 18.21. Rajabpoor, Mohammad, M.Sc. in Architecture, '**Designing of Strategic Sustainable Environmental Center in North-West of Iran, Tabriz City**', Islamic Azad University-Azarshahr Branch, Iran, April 16, 2018. ([Link](#))
- 18.20. Alipour, Javad, M.Sc. in Architecture, '**Sustainable 5 Star Hotel Design in Aras Free Trade-Industrial Zone**', Islamic Azad University-Marand Branch, Iran, March 2018.
- 18.19. Mahmoudi Hamlehvar, Asma, M.Sc. in Architecture, '**Designing the Addiction Abandonment Camp in Tabriz City**', Islamic Azad University-Jolfa International Branch, Iran, March 2018.
- 18.18. Rasouli, Shiva, M.Sc. in Architecture, '**Designing Ecological-Touristic Complex in Guri-Gol of Tabriz**', Islamic Azad University-Jolfa International Branch, Iran, November 2017.
- 18.17. Ahmadzadeh, Hazhar, M.Sc. in Architecture, '**Designing Engineering Organization Building in Mahabad Approaching Sustainability Architecture**', Islamic Azad University-Jolfa International Branch, Iran, November 2017.
- 18.16. Mohammadi, Hadi, M.Sc. in Architecture, '**Designing Municipality Building of Sardasht Approaching Sustainable Architecture**', Islamic Azad University-Jolfa International Branch, Iran, November 2017.
- 18.15. Moshaver, Hasan, M.Sc. in Architecture, '**Designing Residential Complex in Tabriz Approaching Sustainable Architecture**', Islamic Azad University-Heris Branch, Iran, November 2017.
- 18.14. Babazadeh, Sajjad, M.Sc. in Architecture, '**Research Center Design for Sustainable Recycling of Building Materials in Tabriz**', Islamic Azad University-Heris Branch, Iran, September 2017.
- 18.13. Zare GulAkhour, Fatemeh, M.Sc. in Architecture, '**Solar Villa Complex Design in Vali-e-Asr Town of Marand Approaching Sustainable Architecture**', Islamic Azad University-Marand Branch, Iran, August 24, 2017.
- 18.12. Sharafloou, Hasan, M.Sc. in Architecture, '**Designing Energy Faculty of Islamic Azad University-Jolfa International Branch Approaching Sustainable Architecture**', Islamic Azad University-Jolfa International Branch, Iran, August 23, 2017.

- 18.11. Alizadeh Hesar, Hossein, M.Sc. in Architecture, '**Designing International Trade Center of Maku Free Zone Approaching Solar Architecture**', Islamic Azad University-Jolfa International Branch, Iran, August 23, 2017.
- 18.10. Pourmajidi, Marziyeh, M.Sc. in Architecture, '**Designing Sustainable Energy Research Center 1404 in Maku Free Zone Approaching Sustainable Architecture**', Islamic Azad University-Jolfa International Branch, Iran, August 23, 2017.
- 18.9. Akbarzadeh, Raheleh, M.Sc. in Architecture, '**Designing Energy Efficient Villa Complex in Bari Region, Urmia**', Islamic Azad University-Jolfa International Branch, Iran, August 23, 2017.
- 18.8. Seifollahi Khamneh, Mehdi, M.Sc. in Architecture, '**Designing Sustainable Eco-Touristic Complex of Marand 1404**', Islamic Azad University-Jolfa International Branch, Iran, August 23, 2017.
- 18.7. Hayati, Ayla, M.Sc. in Energy and Architecture, '**Optimization of Energy Consumption in Azad University of Bonab by Using Active Solar Energy Systems**', Islamic Azad University-Jolfa International Branch, Iran, March 04, 2017.
- 18.6. Deroghar, Mahsa, M.Sc. in Energy and Architecture, '**Investigating the Possibilities and Limits of the Architecture of Cold Climates in Versatility with Passive Solar System**', Islamic Azad University-Jolfa International Branch, Iran, March 04, 2017.
- 18.5. AliNasabFarzaneh, Reza, M.Sc. in Technology of Architecture, '**Designing Touristic-Residential Complex in Kandowan Village approaching Vernacular Architecture**', Islamic Azad University-Jolfa International Branch, Iran, February 21, 2017.
- 18.4. Aslanzadeh, Ashkan, M.Sc. in Architecture, '**Designing Eco-Touristic Village in Taleghan**', Islamic Azad University-Jolfa International Branch, Iran, February 21, 2017.
- 18.3.. Hajavi, Ghader, M.Sc. in Technology of Architecture, '**Designing of Artistic-Cultural Complex in Hashtrud City Approaching Sustainable Architecture**', Islamic Azad University-Jolfa International Branch, Iran, September 17, 2016.
- 18.2. PanahiAzar, Fatemeh, M.Sc. in Architecture, '**Designing of Of 300 Units Residential Complex in Tabriz Approaching Sustainable Architecture**', Islamic Azad University-Jolfa International Branch, Iran, September 17, 2016.
- 18.1. Zeynalzadeh, Arezu, M.Sc. in Architecture, '**Designing of Contemporary Art Museum in Urmia**', Islamic Azad University-Jolfa International Branch, Iran, September 17, 2016.

19. THESIS CO-SUPERVISOR (ADVISOR)- (Post-graduate Level)

Architecture and Energy Program:

- 19.1. Mohammadkhani, Sanaz, M.A. in Architecture and Energy, '**The Impact of Physical Features of Skin Façade and Natural Ventilation Pattern on Energy Consumption in a Residential Complex in Tehran**', University of Tehran, Kish International Campus, Kish Island, Iran, February 2017.

20. Managed Final Projects (B.A./B.Sc.)

- 20.2. 32 Completed Final Projects: B.A./B.Sc. Program of Architecture (2006-2012)
 20.1. 15 Completed Final Projects: A.Sc. Program of Architecture (2006-2012)

21. JURY MEMBER

University (Post-Graduate Level)

21.1. Jury member for six M.Sc. thesis defenses of Architectural Engineering Students (March 2017, August 2017)

University (Post-Graduate Level)

21.2. Jury member for four B.Sc. thesis defense of Architectural Engineering Students (April 2010)

National Competition of INTERNAT

21.3. Jury member for Energy Modeling/Simulation Section of **Internat Competition**, Iranian University of Science and Technology, Tehran, Iran, September 2017. ([Link](#))

22. MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

22.1. International

22.1.22. Associate AIA (The American Institute of Architects), Washington, USA (2019-Present)

22.1.21. ISES (International Solar Energy Society-Germany), (Professional Silver Membership), (2005- Present)

22.1.20. ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers), USA, (2021-Present)

22.1.19. SBSE (Society of Building Science Educators), USA (2019-2100)

22.1.18. iPHA (International Passive House Association), Germany (2021-Present)

22.1.17. PHC (Passive House Canada), Canada (2022-Present)

22.1.16. NYPH (New York Passive House), USA (2021-Present)

22.1.15. PHCA (Passive House California), USA (2021-Present)

22.1.14. PHN (Passive House Network), USA (2021-Present)

22.1.9.6. PHN Chapter: Passive House Minnesota, USA (2021-Present)

22.1.9.5. PHN Chapter: New Jersey Passive House, USA (2021-Present)

22.1.9.4. PHN Chapter: Passive House Pennsylvania, USA (2021-Present)

22.1.9.3. PHN Chapter: Passive House Rocky Mountain, USA (2021-Present)

22.1.9.2. PHN Chapter: Passive House DC (Maryland, District of Columbia, Virginia), USA (2021-Present)

22.1.9.1. PHN Chapter: Passive House America (North American Passive House Network), USA (2021-Present)

22.1.13. CTPH (Connecticut Passive House), USA (2021-Present)

22.1.12. AECB (Association for Environment Conscious Building), UK (2021-Present)

22.1.11. GHI (Green Home Institute), USA (2022-Present)

22.1.10. IEA (Iran Energy Association), IRAN (2022-Present) ([Link](#))

22.1.9. ASCE (American Society of Civil Engineering), USA, (2005-2007)

22.1.8. IRSES (Iranian Solar Energy Society), IRAN, (2001-2004)

- 22.1.7. ASME (American Society of Mechanical Engineering), USA, (2005-2009)
- 22.1.6. IWHA (of International Water History Association), Norway, (2004-2005)
- 22.1.5. WSSET (World Society of Sustainable Energy Technologies), UK, (2008-Present)
- 22.1.4. WSEAS (World Scientific and Engineering Academy and Society), USA, (2004-Present)
- 22.1.3. WASET (World Academy of Science, Engineering and Technology), USA
- 22.1.2. ASES (American Solar Energy Society), USA, (2005-Present)
- 22.1.1. Coordinator of EKOCESTRUM (Swedish Ecological Center), Sweden: in the North West of Iran (2007-Present).
([Link](#))

22.2. Iran

- 22.2.4. Coordinator and Selected Member of EKOCESTRUM (Swedish Ecological Centre), Sweden in the North-West of Iran (Since 2007): Arranging 4 Workshops titled: Human ecology, Eco-cycles & Alternative Energies. ([Link](#))
- 22.2.3. Iranian organization for Engineering Order of Building -West Azarbaijan Province, Field: Architecture, Membership No: 14-1-0-02763.
- 22.2.2. Young Researchers and Elite Club, Iran; Code Detection: 9586125001 ([Link](#))
- 22.2.1. Young Architects Association, Tabriz, Iran

23. VERIFIED/PROFESSIONAL CERTIFICATES (SKILLS/COURSES/WORKSHOPS)

23.1. Professional Skills

- 23.1.2. '*Design and Simulation of Photovoltaic Systems with PVSYST Softwareer of Photovoltaic Systems*' Skill Standard (Code:215140070010011), *Renewable Energy Technology* Skill Certificate, (Training Duration: 140 Hours), (Level: Very Good, 86 out of 100), Iran Technical & Vocational Training Organization, Iran, (Issued on October 24, 2022), Certificate Validation: until October 24, 2027 ([Link](#))
- 23.1.1. '*Designer of Photovoltaic Systems*' Skill Standard (Code:215140070010001), *Renewable Energy Technology* Skill Certificate, (Training Duration: 302 Hours), (Level: Very Good, 84 out of 100), Iran Technical & Vocational Training Organization, Iran, (Issued on May 16, 2022), Certificate Validation: until May 16, 2027 ([Link](#))

23.2. Professional Courses

- 23.2.1. '*Wildfire Defense Professional Certificate Landscaper Module*', United States Green Building Council-Los Angeles (USGBC-LA), Los Angeles, CA, USA (Issued on May 26, 2023) [Results: 92%] ([Link](#))

23.2.2. 'AIA+2030 Online Series Certificate Program' (10 Courses):

- 23.2.2.11. '*AIA+2030 Certificate Program*', The American Institute of Architects (AIA), USA, Provider #: 10100109, (Professional Certificate Issued on Jan. 03, 2023). ([Link](#))

- 23.2.2.10. *'The 2030 Challenge: Goals and Design Processes | Course 1'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-20301, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 03, 2023). ([Link](#))
- 23.2.2.9.. *'The Power of Targets and Load Reduction | Course 2'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-20302, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 07, 2023). ([Link](#))
- 23.2.2.8. *'Accentuate the Positive: Climate Responsive Design | Course 3'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-20303, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 07, 2023). ([Link](#))
- 23.2.2.7. *'Building Skin: The Importance of the Thermal Envelope | Course 4'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-20304, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 09, 2023). ([Link](#))
- 23.2.2.6. *'Employing Passive Systems for Load Reduction | Course 5'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU17-20305v2, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 09, 2023). ([Link](#))
- 23.2.2.5. *'Daylighting and Integrated Lighting Design | Course 6'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU17-20306v2, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 12, 2023). ([Link](#))
- 23.2.2.4. *'High Performance Building Systems | Course 7'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU17-20307v2, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 12, 2023). ([Link](#))
- 23.2.2.3. *'The Role of Renewable Energy | Course 8'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU17-20308v2, Provider #: 10100109, 1.25 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 12, 2023). ([Link](#))
- 23.2.2.2. *'Staying in Shape: O&M and Commissioning | Course 9'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-20309, Provider #: 10100109, 1.00 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 12, 2023). ([Link](#))
- 23.2.2.1. *'Putting it Together: Achieving 2030 Goals on the Project and in the Office | Course 10'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-203010, Provider #: 10100109, 1.25 LUs | Credits: HSW,RIBA, (Certificate Issued on Jan. 12, 2023). ([Link](#))

23.2.3. 'Embodied Carbon 101: Online Series Certificate Program' (12 Courses):

- 23.2.3.12. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA01, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on Jan. 31, 2023). ([Link](#))
- 23.2.3.11. *'Embodied Carbon 101: Environmental Product Declarations (EPDs)'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA02, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on May 25, 2023). ([Link](#))
- 23.2.3.10. *'Embodied Carbon 101: Envelope'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA03, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on May 25, 2023). ([Link](#))

- 23.2.3.9. *'Embodied Carbon 101: Structure'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA04, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on May 27, 2023). ([Link](#))
- 23.2.3.8. *'Embodied Carbon 101: MEP'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA05, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on May 28, 2023). ([Link](#))
- 23.2.3.7. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA06, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 01, 2023). ([Link](#))
- 23.2.3.6. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA07, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 02, 2023). ([Link](#))
- 23.2.3.5. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA08, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 03, 2023). ([Link](#))
- 23.2.3.4. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA09, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 04, 2023). ([Link](#))
- 23.2.3.3. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA10, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 06, 2023). ([Link](#))
- 23.2.3.2. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA11, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 08, 2023). ([Link](#))
- 23.2.3.1. *'Embodied Carbon 101: Basic literacy'*, The American Institute of Architects (AIA), USA, AIA Course #: AIAU20-BSA12, Provider #: 10100109, 1 LUs | Credits: HSW,RIBA, Course Grade: 100.00 %, (Certificate Issued on June 10, 2023). ([Link](#))

23.2.4. 'Buildings as Sustainable Energy Systems: Professional Certificate' (4 Courses):

- 23.2.4.5. *'Buildings as Sustainable Energy Systems'* Professional Certificate, TU-Delft University, Netherlands (Professional Certificate Issued on Nov. 2021), Valid Certificate ID: ([Link](#))
- 23.2.4.4. *'ECObuild4x: Efficient HVAC Systems'* Course, TU-Delft University, Netherlands (Sep. 28 - Nov. 22, 2021), (Certificate Issued on on Nov. 22, 2021), Valid Certificate ID: ([Link](#))
- 23.2.4.3. *'ECObuild3x: Comfort and Health in Buildings'* Course, TU-Delft University, Netherlands (Apr. 13 - May 18, 2021), (Certificate Issued on June 03, 2021), Valid Certificate ID: ([Link](#))
- 23.2.4.2. *'ECObuild2x: Energy Supply Systems for Buildings'* Course, TU-Delft University, Netherlands (Nov. 10 - Dec. 22, 2020) (Certificate Issued on Dec. 24, 2020), Valid Certificate ID: ([Link](#))
- 23.2.4.1. *'ECObuild1x: Energy Demand in Buildings'* Course, TU-Delft University, Netherlands (Aug. 25 - Oct. 06, 2020), (Certificate Issued on: Oct. 25, 2020), Valid Certificate ID: ([Link](#))

23.3. Verified Courses

- 23.3.36. 'PY0101EN: Python Basics for Data Science' Course, IBM, USA, (Issued on March 31, 2023), Valid Certificate ID: [\(Link\)](#)
- 23.3.35. 'EnerTran2x:The Transition to the Decarbonised Economy of Tomorrow' Course, TU-Delft University of Technology, Netherlands, (Issued on Feb. 22, 2023), Valid Certificate ID: [\(Link\)](#)
- 23.3.34. 'Making Passive House Standard', The American Institute of Architects (AIA), USA, AIA Course #: AIAU21-RKWL02R, Provider #: 10100109, 1 LUs | Credits: HSW, Course Grade: 90.00 %, (Certificate Issued on Jan. 31, 2023). [\(Link\)](#)
- 23.3.33. 'PH526X: Using Python for Research' Course, Harvard University, USA, (Issued on Feb. 21, 2022), Valid Certificate ID: [\(Link\)](#)
- 23.3.32. 'PH125.2X: Data Science: Visualization' Course, Harvard University, USA, (Issued on Feb. 20, 2022), Valid Certificate ID: [\(Link\)](#)
- 23.3.31. 'Polysun Basic Course: Simulation of Thermal and Photovoltaic Systems', Vela Solaris AG, Switzerland (Sep. 29, 2021) [\(Link\)](#)
- 23.3.30. 'Polysun Advanced Course: Tank Model, Controllers, Power-to-Heat, Profitability', Vela Solaris AG, Switzerland (Oct. 11, 2021) [\(Link\)](#)
- 23.3.29. 'Intermediate Workshop on Zero Energy Buildings', University of Isfahan, Iran (Jan. 28-29 & Feb. 04-05, 2021) [\(Link\)](#)
- 23.3.28. 'Professional Workshop on Zero Energy Buildings', University of Isfahan, Iran (Mar. 4-5 & 11-12, 2021) [\(Link\)](#)
- 23.3.27. 'Polysun Designer' Training Course, University of Isfahan, Iran (Feb. 11-12, 2021) [\(Link\)](#)
- 23.3.26. '17th Exergy and Its Applications' Workshop, Ankara Yildirim Beyazit University, Turkey (Dec. 28-30, 2020)
- 23.3.25. '2021 Lighting R&D' Workshop, U.S. Department of Energy (DOE), (Feb. 1-4, 2021)
- 23.3.24. 'Solar Responsive Design Workshop', Tabriz Islamic Art University (Iran) in cooperation with Auburn University (USA) (Feb. 07, 2007)
- 23.3.23. 'Design Builder Software' Workshop, Tehran University, Tehran, Iran, August 31-September 2, 2013. [\(Link\)](#)
- 23.3.22. 'Solar Energy Based Hydrogen Production' Workshop, 2nd International Conference and Exhibition on Solar Energy 'ICESE' 2015, Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)
- 23.3.21. 'Solar Energy and City's future Reflections' Workshop, 2nd International Conference and Exhibition on Solar Energy 'ICESE' 2015, Tehran University, Tehran, Iran, August 30-31, 2015. [\(Link\)](#)
- 23.3.20. 'Reinforced Concrete, Prefabricated, and Semi-Prefabricated Spans' Workshop, Tehran, Iran, October 29, 2009.
- 23.3.19. Regional Training Course in the Northwest of Iran on: 'Architecture & Urban Design, Green Landscape, Protection, Management, Sustainable Development, Historical-Economical-Social Aspects', Central Municipality of Tabriz, Iran, January 26, 2008.

- 23.3.18. Regional Training Course in the Northwest of Iran on: '*Qanats: Investigation, Protection and Renovate*', East Azarbaijan General Office of Environment, Tabriz, Iran, November 20, 2007.
- 23.3.17. '*Light Weight Slab*' Workshop, Islamic Azad University-Khoy Branch, Khoy, Iran, November 13, 2007.
- 23.3.16. International Training Course on '*Qanats: A Multidisciplinary Approach to Integrating Traditional Knowledge with Modern Development*' Yazd, Iran, July 1-4, 2007.
- 23.3.15. '*Environmental Workshop: Human Ecology and Eco-Cycles*', Urmia University, Urmia, Iran, September 03, 2004.
- 23.3.14. Educational Workshop of '*Photovoltaics*', Sharif University of Technology, Tehran, Iran, December 10-11, 2002.
- 23.3.13. '*Solar Standards and Certification- IEA SHC Solar Academy Task 57*', International Solar Energy Society (ISES), Dember 12, 2018. ([Link](#))
- 23.3.12. '*Renewable District Heating and Local Heat Planning*', International Solar Energy Society (ISES), January 25, 2017. ([Link](#))
- 23.3.11. '*Dispelling the Myths - Renewables in the Grid*', International Solar Energy Society (ISES), January 29, 2019. ([Link](#))
- 23.3.10. '*IEA SHC Solar Academy Task 57 - Solar Standards and Certification*', International Solar Energy Society (ISES), December 12, 2018. ([Link](#))
- 23.3.9. '*IEA SHC Solar Academy: Integrated Solutions for Daylighting and Electric Lighting - Task 61*', International Energy Society (ISES), September 24, 2020. ([Link](#))
- 23.3.8. '*Measuring Albedo*', International Solar Energy Society (ISES), November 20, 2018. ([Link](#))
- 23.3.7. '*Powering Renewables: Women in Solar Energy II*', International Solar Energy Society (ISES), February 12, 2019. ([Link](#))
- 23.3.6. '*Renewable Energy Disruption in the Australian Electricity Industry*', International Solar Energy Society (ISES), April 26, 2017. ([Link](#))
- 23.3.5. '*Renewable Energy in Developing Counties - Focus on Tanzania and Morocco*', International Solar Energy Society (ISES), November 29, 2016. ([Link](#))
- 23.3.4. '*Renewables 2021 Global Status Report*', International Solar Energy Society (ISES), November 15, 2013. ([Link](#))
- 23.3.3. '*Transforming the Air, Sea, and Land Freight Transport Sector - SWC50 Webinar*', International Solar Energy Society (ISES), August 12, 2021. ([Link](#))
- 23.3.2. '*Updates on Solar Forecasting and Other Solar Resource Work of IEA PVPS Task 16*', International Solar Energy Society (ISES), August 27, 2020. ([Link](#))
- 23.3.1. '*Planning and Prospects for Renewable Power: Eastern and Southern Africa*', International Renewable Energy Agency (IRENA), May 11, 2021. ([Link](#))

24. ELSEVIER VERIFIED CERTIFICATES (TRAINING COURSES)

- 98 Professional Certificates of e-Learning (including 18 Certificates of Excellences and 80 certificates of modules) from “Research Academy of ELSEVIER”, (since 22nd Oct. 2018 until present) ([Link](#)) as following:

□ **Navigating Peer Review** (4 topics & 26 modules)

24.102. Certified Peer Reviewer Course (*Certificates of Excellence*)

- Introduction to the Certified Peer Reviewer Course
- What to expect from the Certified Peer Reviewer Course?
 - 1.1 What is peer review? Why peer review?
 - 1.2 Models of peer review
 - 1.3 The typical peer review process
 - 1.4 How to get involved
 - 2.0 I just got a review invite, what’s next?
 - 3.1 How to write a helpful peer review report
 - 3.2 The comments to editors and decision recommendations
 - 3.3 How to peer review a review article?
 - 4.0 What next?
- Certified Peer Reviewer Course Assessment

24.101. Fundamentals of Peer Review (*Certificates of Excellence*)

- Recognizing peer reviewers: A webinar to celebrate editors and researchers
- Ethics responsibilities for peer reviewers
- Why get involved in peer review
- Transparency in peer review
- Diversity in peer review

24.100. Becoming A Peer Reviewer (*Certificates of Excellence*)

- Understanding the peer review process
- How to review a manuscript?
- 10 tips for writing a truly terrible review
- How to become a reviewer and what do editors expect?
 - How reviewers become editors

24.99. Going Through Peer Review (*Certificates of Excellence*)

- How to respond to reviewers’ comments
- How do editors look at your paper?

□ **Research Preparation** (3 topics & 11 modules)

24.98. Funding (*Certificates of Excellence*)

- How to secure funding - ECR edition
- Funding Hacks for Researchers
- Successful research grant applications - getting it right
- Discover how metrics can boost funding and networking opportunities

24.97. Research Data Management (*Certificates of Excellence*)

- How to manage and publish your research data
- How researchers store, share and use data
- Creating a good research data management plan
- How researchers benefit from citing data

24.96. Research Collaborations (*Certificates of Excellence*)

- How to produce highly visible research: Useful tips for researchers
- The key to successful academic collaborations
- Making academia-industry collaborations work

□ **Writing for Research** (4 topics & 17 modules)

24.95. Fundamentals of the Manuscript Preparation (*Certificates of Excellence*)

- Guide to reference managers: How to effectively manage your references
- How to prepare your manuscript
- Structuring your article correctly
- How to write an abstract and improve your article

24.94. Writing Skills (*Certificates of Excellence*)

- How to turn your thesis into an article
- 5 Diseases ailing research - and how to cure them
- Using proper manuscript language
- 10 tips for writing a truly terrible journal article

24.93. Technical Writing Skills (*Certificates of Excellence*)

- How to write for an interdisciplinary audience
- An editor's guide to writing a review article
- How to write case reports
- Systematic Reviews 101
- Make the most of your research: publish your data & methods
- Beginners' guide to writing a manuscript in LaTeX

24.92. Book Writing (*Certificates of Excellence*)

- Why write a book?
- How to get your book published
- Discoverability: top tips to get your book out there

□ **Publication Process** (5 topics & 19 modules)

24.91. Fundamentals of Publishing (*Certificates of Excellence*)

- 10 reasons to get - and use - an ORCID iD
- The Journal Publishing Cycle
- Making sense of science stories
- The origins of scientific publishing
- Gender Bias in academic publishing

24.90. Finding the Right Journal (*Certificates of Excellence*)

- A guide to journal citation metrics
- How to identify the right journal to publish in

24.89. Ethics (*Certificates of Excellence*)

- Plagiarism
- Authorship
- Content ownership
- Why you can't afford to ignore publication ethics
- Demystifying permissions

24.88. Open Science (*Certificates of Excellence*)

- Publishing open access
- What is open science?
- Open access and navigating the journal landscape

- 24.87. Publishing in the Chemical Sciences (*Certificates of Excellence*)
- How to get published in the Chemical Sciences
 - Publishing ethics in Chemical and Material Sciences
 - The fundamentals of peer review for the Chemical Sciences
 - The nuts & bolts of peer review: a discussion by Biomaterials editors
- **Communicating Your Research** (2 topics & 7 modules)
- 24.86. Social Impact (*Certificates of Excellence*)
- How to create impact with patient and public involvement
 - How to write a lay summary
 - How your research can make an impact on society
- 24.85. Ensuring Visibility (*Certificates of Excellence*)
- Seven strategies for scientists to communicate their research and create a brand
 - Conference skills for researchers
 - Social Media for Researchers
 - How to promote your research for maximum impact
- 24.84. *'Discover How Metrics Can Boost Funding and Networking Opportunities'*, Certificate of Excellence, Elsevier Researcher Academy, May 28, 2022. ([Link](#))
- 24.83. *'Writing a Persuasive Cover Letter for Your Manuscript'*, Certificate of Excellence, Elsevier Researcher Academy, May 28, 2022. ([Link](#))
- 24.82. *'Becoming a Peer Reviewer'*, Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))
- 24.81. *'Certified Peer Reviewer Course'*, Certificate of Excellence, Elsevier Researcher Academy, September 19, 2019. ([Link](#))
- 24.80. *'Book Writing'*, Certificate of Excellence, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.79. *'Ethics'*, Certificate of Excellence, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.78. *'Finding the Right Journal'*, Certificate of Excellence, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.77. *'Fundamentals of Manuscript Preparation'*, Certificate of Excellence, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.76. *'Fundamentals of Peer Review'*, Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))
- 24.75. *'Fundamentals of Publishing'*, Certificate of Excellence, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.74. *'Funding'*, Certificate of Excellence, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.73. *'Going Through Peer Review'*, Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))
- 24.72. *'Publishing in the Chemical Sciences'*, Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))
- 24.71. *'Research Collaborations'*, Certificate of Excellence, Elsevier Researcher Academy, June 01, 2019. ([Link](#))

24.70. '*Social Impact*', Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))

24.69. '*Technical Writing Skills*', Certificate of Excellence, Elsevier Researcher Academy, September 09, 2019. ([Link](#))

Certificate of Completion

24.68. '*5 Diseases Ailing Research - and How to Cure Them*', Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))

24.67. '*10 Reasons to Get - and Use - an ORCID ID*', Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))

24.66. '*Authoring in The Lancet — Learn from the Editors!*', Certificate of Completion, Elsevier Researcher Academy, May 16, 2020. ([Link](#))

24.65. '*Authorship*', Certificate of Completion, Elsevier Researcher Academy, October 22, 2018. ([Link](#))

24.64. '*How to Become a Reviewer and What Do Editors Expect?*', Certificate of Completion, Elsevier Researcher Academy, September 09, 2019. ([Link](#))

24.63. '*Best Practices in Reporting & Submitting Clinical Research for High-Impact Journals*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))

24.62. - '*How to Build Empathy in Research*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))

24.61. '*Why You Can't Afford to Ignore Publication Ethics*', Certificate of Completion, Elsevier Researcher Academy, September 19, 2019. ([Link](#))

24.60. '*3.1 How to Write a Helpful Peer Review Report*', Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))

24.59. '*Certified Peer Reviewer Course Assessment*', Certificate of Completion, Elsevier Researcher Academy, September 10, 2019. ([Link](#))

24.58. '*3.2 The Comments to Editors and Decision Recommendations*', Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))

24.57. '*Conference Skills for Researchers*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))

24.56. '*Content Ownership*', Certificate of Completion, Elsevier Researcher Academy, October 25, 2018. ([Link](#))

24..55. '*How to Create Impact with Patient and Public Involvement*', Certificate of Completion, Elsevier Researcher Academy, September 09, 2019. ([Link](#))

24.54. '*Creating a Good Research Data Management Plan*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))

24.53. '*Discoverability: Top Tips to Get Your Book Out There*', Certificate of Completion, Elsevier Researcher Academy, June 12, 2019. ([Link](#))

24.52. '*An Editor's Guide to Writing a Review Article*', Certificate of Completion, Elsevier Researcher Academy, September 09, 2019. ([Link](#))

- 24.51. *'How to Produce Highly Visible Research: Useful Tips for Researchers'*, Certificate of Completion, Elsevier Researcher Academy, December 13, 2018. ([Link](#))
- 24.50. *'How to Get Your Book Published'*, Certificate of Completion, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.49. *'1.4 How to Get Involved'*, Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))
- 24.48. *'A Guide to Journal Citation Metrics'*, Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))
- 24.47. *'How to Identify the Right Journal to Publish in'*, Certificate of Completion, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.46. *'Improving Diversity and Inclusion in Research and Publishing'*, Certificate of Completion, Elsevier Researcher Academy, January 01, 2017. ([Link](#))
- 24.45. *'Introduction to the Certified Peer Reviewer Course'*, Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))
- 24.44. *'The Journal Publishing Cycle'*, Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))
- 24.43. *'The Key to Successful Academic Collaborations'*, Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))
- 24.42. *'Learn from the Editors: Authoring in High-Impact Journals'*, Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))
- 24.41. *'Learn From the Editors - Tips for Impactful Submissions'*, Certificate of Completion, Elsevier Researcher Academy, May 16, 2020. ([Link](#))
- 24.40. *'Learn Valuable Tips from a Lancet Editor'*, Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))
- 24.39. *'Make the Most of Your Research: Publish Your Data & Methods'*, Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.38. *'How to Manage and Publish Your Research Data'*, Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.37. *'4.0 What Next?'*, Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))
- 24.36. *'The Nuts & Bolts of Peer Review: A Discussion by Biomaterials Editors'*, Certificate of Completion, Elsevier Researcher Academy, September 10, 2019. ([Link](#))
- 24.35. *'Open Access and Navigating the Journal Landscape'*, Certificate of Completion, Elsevier Researcher Academy, September 10, 2019. ([Link](#))
- 24.34. *'The Origins of Scientific Publishing'*, Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.33. *'1.1 What Is Peer Review? Why Peer Review?'*, Certificate of Completion, Elsevier Researcher Academy, September 17, 2019. ([Link](#))

- 24.32. '*3.3 How to Peer Review a Review Article?*', Certificate of Completion, Elsevier Researcher Academy, March 05, 2022. ([Link](#))
- 24.31. '*Plagiarism*', Certificate of Completion, Elsevier Researcher Academy, October 22, 2018. ([Link](#))
- 24.30. '*How to Prepare Your Manuscript*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.29. '*How to Produce Highly Visible Research: Useful Tips for Researchers*', Certificate of Completion, Elsevier Researcher Academy, December 13, 2018. ([Link](#))
- 24.28. '*How to Promote Your Research for Maximum Impact*', Certificate of Completion, Elsevier Researcher Academy, September 23, 2019. ([Link](#))
- 24.27. '*How To Publish in High Impact Journals*', Certificate of Completion, Elsevier Researcher Academy, May 16, 2020. ([Link](#))
- 24.26. '*How Your Research Can Make an Impact on Society*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))
- 24.25. '*How Researchers Store, Share and Use Data*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.24. '*How Reviewers Become Editors*', Certificate of Completion, Elsevier Researcher Academy, September 10, 2019. ([Link](#))
- 24.23. '*How to Review a Manuscript*', Certificate of Completion, Elsevier Researcher Academy, September 09, 2019. ([Link](#))
- 24.22. '*Seven Strategies for Scientists to Communicate Their Research and Create a Brand*', Certificate of Completion, Elsevier Researcher Academy, September 10, 2019. ([Link](#))
- 24.21. '*Social Media for Researchers*', Certificate of Completion, Elsevier Researcher Academy, September 19, 2019. ([Link](#))
- 24.20. '*Standing up for Science*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))
- 24.19. '*Structuring Your Article Correctly*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.18. '*Successful Research Grant Applications - Getting It Right*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.17. '*Systematic Reviews 101*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.16. '*Techniques and Strategies for Submission to The Lancet*', Certificate of Completion, Elsevier Researcher Academy, July 31, 2020. ([Link](#))
- 24.15. '*10 Tips for Writing a Truly Terrible Journal Article*', Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))
- 24.14. '*How to Turn Your Thesis into an Article*', Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))

- 24.13. '*Understanding the Peer Review Process*', Certificate of Completion, Elsevier Researcher Academy, September 23, 2019. ([Link](#))
- 24.12. '*Using Proper Manuscript Language*', Certificate of Completion, Elsevier Researcher Academy, May 30, 2019. ([Link](#))
- 24.11. '*How to Write an Abstract and Improve Your Article*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.10. '*Why Write a Book?*', Certificate of Completion, Elsevier Researcher Academy, June 12, 2019. ([Link](#))
- 24.9. '*How to Write Case Reports*', Certificate of Completion, Elsevier Researcher Academy, June 01, 2019. ([Link](#))
- 24.8. '*Demystifying Permissions*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.7. '*Funding Hacks for Researchers*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.6. '*Building Trust and Engagement in Peer Review*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.5. '*How to Prepare a Proposal for a Review Article*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.4. '*How to Design Effective Figures for Review Articles*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.3. '*Make Your Data Accessible -It's Not FAIR! Improving Data Publishing Practices in Research*', Certificate of Completion, Elsevier Researcher Academy, March 31, 2022. ([Link](#))
- 24.2. '*Make Your Data Reusable - It's Not FAIR! Improving Data Publishing Practices in Research*', Certificate of Completion, Elsevier Researcher Academy, January 01, 2014. ([Link](#))
- 24.1. '*How to Conduct Evidence-Based Research*', Certificate of Completion, Elsevier Researcher Academy, January 01, 2014. ([Link](#))

25. VERIFIED CERTIFICATES (TRAINING COURSES/WORKSHOPS/WEBINARS)

25.1. [GreenHome Institute](#)

- 25.1.29. '*The State of Net Zero Housing 2023: Inventory of Zero Report*', Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional Energy | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates | PHIUS: 23923, GreenHome Institute, April 12, 2023.
- 25.1.28. '*The State of Net Zero Housing 2023: Inventory of Zero Report*', Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional Energy | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates | PHIUS: 23923, GreenHome Institute, April 12, 2023.
- 25.1.27. '*Understanding the IRA Efficient Home Improvement Tax Credit*', Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional Energy, Health, Materials, Water, Place | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates | PHIUS: 23916, GreenHome Institute, March 08, 2023.

- 25.1.26. *'Rethinking Building Carbon Accounting'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, June 22, 2022.
- 25.1.25. *'Live Demo: Everything to Do with Walls for Higher Performance'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, May 25, 2022.
- 25.1.24. *'Professional Dehumidification Strategies for High Performance Homes'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, May 18, 2022.
- 25.1.23. *'Foam Free High Performance Building Enclosures'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, May 11, 2022.
- 25.1.22. *'Funding Ground Source Heatpumps Through a New Utility Like Model'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, May 04, 2022.
- 25.1.21. *'Ensuring Green Builders are Industry Leaders: Housing 2.0'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, April 27, 2022.
- 25.1.20. *'Heatpumps & Gas: Cold Climate Hybrid Systems are Here'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, April 20, 2022.
- 25.1.19. *'Residential Smart Ventilation Panel'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, April 13, 2022.
- 25.1.18. *'Take Control of your Energy Future Net Zero Workforce Development'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, March 30, 2022.
- 25.1.17. *'Bigger than Tiny, Smaller than Average'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, March 23, 2022.
- 25.1.16. *'Embodied Carbon and the Passive House Standard'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, March 16, 2022.
- 25.1.15. *'What is the Future of Energy Storage with Solar?'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, March 09, 2022.
- 25.1.14. *'Take Control of your Energy Future - Zero Energy Multifamily Housing, Zero Energy Multifamily Housing'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, September 29, 2021.

- 25.1.13. *'Take Control of your Energy Future - Net Zero New Home Construction'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, July 01, 2021,
- 25.1.12. *'Basics of Residential Green Building and Remodeling PT3'*, Credits: 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, August 04, 2021.
- 25.1.11. *'Basics of Residential Green Building and Remodeling PT4 - Health'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, August 11, 2021.
- 25.1.10. *'Basics of Residential Green Building and Remodeling PT6 Materials & Water'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, August 11, 2021.
- 25.1.9. *'Basics of Residential Green Building and Remodeling PT 7 Water / Place'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, September 01, 2021.
- 25.1.8. *'Comparing The Residential Energy Rating Systems'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, October 20, 2021.
- 25.1.7. *'All About Permeable Black Locust Lumber Exterior Solutions'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, November 03, 2021.
- 25.1.6. *'Healthier Materials for Energy Efficiency Upgrades'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, November 10, 2021.
- 25.1.5. *'Comparing the Residential Green Building Certification Programs'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, December 15, 2021.
- 25.1.4. *'Beneficial Electrification for Healthier Communities'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, January 26, 2022.
- 25.1.3. *'Prescription for Better Buildings: PHIUS 2021 Core Prescriptive Path'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, February 09, 2022.
- 25.1.2. *'What is Different with LEED V4.1 for Single Family'*, 1 Unit for: GBCI | AIA (HSW)* | CGP | Certified GreenHome Professional | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, February 16, 2022.
- 25.1.1. *'Intro to Passive House 2021 & Source Zero'*, Credits: GBCI | AIA (HSW)* | CGP | CGHP | NARI | BPI NonWholeHouse | AIBD | LEED Green Associates, GreenHome Institute, February 27, 2022.

25.2. Continuing Professional Development (CPD) Certificates

- 25.2.5. *'Energy Efficiency - Now is the Time to Go Green'*, Credit: 1 Hour CPD, Green Building Design, UK, April 26, 2023, ([Link](#)).
- 25.2.4. *'Smart Solutions for Energy-Efficient Buildings'*, Certificate No: 41317, Credit: 1 Hour CPD, Lyrical Communications, UK, January 26, 2023, ([Link](#)).
- 25.2.3. *'Policy Making and Setting the Regulations Related to Energy Efficiency Improvement, Renewable Energy Deployment and Challenges for Grid Integration in Japan and Power System Operation and Renewable Energy Deployment in Japan'*, Implemented by: Japan Cooperation Center for the Middle East (JCCME) In cooperation with Ministry of Energy, Iran, February 26-March 19, 2021
- 25.2.2. *'Part L 2021 Part F 2019 and NSAI Ventilation Validator Scheme'*, National Building Control and Market Surveillance Office (NBC & MSO), 6.0 Hours CPD, May 05, 2022.
- 25.2.1. *'The Why & How of Entrance Matting'*, INTRASystems (ENHANCING BUILDINGS BY DESIGN), January 18, 2021.

25.3. New London Architecture (NLA)

- 25.3.11. *'Sustainable Products'*, Credit: 1 Hour CPD, Wicono CPD in conjunction with the NLA, March 17, 2023.
- 25.3.10. *'Accessible London: Creating Inclusive Spaces'*, New London Architecture, CPD Provider No: 60057, June 24, 2021 ([Link](#))
- 25.3.9. *'The Art of Zero Waste'*, New London Architecture (NLA), CPD Provider No: 60057, April 14, 2022 ([Link](#))
- 25.3.8. *'Embracing Changing Transport Methods'*, New London Architecture, CPD Provider No: 60057, March 25, 2022 ([Link](#))
- 25.3.7. *'Women's Safety in Public Spaces'*, New London Architecture (NLA), CPD Provider No: 60057, June 25, 2021 ([Link](#))
- 25.3.6. *'Fame Collective Present: Pathways to Success in the Built Environment'*, New London Architecture (NLA), CPD Provider No: 60057, March 10, 2021 ([Link](#))
- 25.3.5. *'Revisiting Retrofits: Building Typologies for The Office'*, New London Architecture (NLA), CPD Provider No: 60057, April 22, 2021 ([Link](#))
- 25.3.4. *'NYLON: Workplace Future'*, New London Architecture (NLA), CPD Provider No: 60057, June 08, 2021, ([Link](#))
- 25.3.3. *'Project in Practice: Office Retrofit'*, New London Architecture (NLA), CPD Provider No: 60057, June 29, 2021, ([Link](#))
- 25.3.2. *'Technical Competency Briefing: Future Homes Standard'*, New London Architecture (NLA), CPD Provider No: 60057, March 19, 2021, ([Link](#))
- 25.3.1. *'APPG - Unlocking Retrofit: Policy, Finance and Regulation'*, New London Architecture (NLA), CPD Provider No: 60057, January 18, 2022, ([Link](#))

25.4. CIBSE

- 25.4.4. '*CIBSE NW COVID Academy: Ventilation Maintenance*', The Chartered Institution of Building Services Engineers (CIBSE)-North West Region, January 21, 2021, ([Link](#))
- 25.4.3. '*CIBSE North West: How to Plan, Design and Deliver High Performing Heat Networks*', The Chartered Institution of Building Services Engineers (CIBSE)-North West Region, January 27, 2021, ([Link](#))
- 25.4.2. '*CIBSE HCNE: Wastewater Heat Recovery*', The Chartered Institution of Building Services Engineers (CIBSE)-HCNE Region, May 08, 2021, ([Link](#))
- 25.4.1. '*Solar PV Design and Installation A Practical Guide*', Spirit Solar Ltd, June 11, 2021 ([Link](#))

25.5. Ecological Building Systems

- 25.5.6. '*Airtightness and Wood Fibre Insulation on CLT Structures*', Credit: 1 Hour CPD, Ecological Building Systems, UK, November 16, 2022, ([Link](#)).
- 25.5.5. '*New Build Construction Using Wood Fibre Insulation*', Credit: 1 Hour CPD, Ecological Building Systems, UK, May 19, 2021, ([Link](#)).
- 25.5.4. '*Airtightness and Active Moisture Management Using Intelligent Vapour Checks*', Credit: 1 Hour CPD, Ecological Building Systems, UK, January 20, 2021, ([Link](#)).
- 25.5.3. '*Insulating and Achieving Airtightness with Cross Laminated Timber*', Credit: 1 Hour CPD, Ecological Building Systems, UK, May 05, 2021, ([Link](#)).
- 25.5.2. '*New Build Construction Using Wood Fiber Insulation*', Credit: 1 Hour CPD, Ecological Building Systems, UK, May 05, 2021, ([Link](#)).
- 25.5.1. '*Internal Wall Insulation Systems for Single Leaf Masonry Walls Seminar*', Credit: 1 Hour CPD, Ecological Building Systems, UK, April 28, 2021, ([Link](#)).

25.6. Green Building Store+Enhabit

- 25.6.4. '*High Performance Windows & Doors*' CPD Webinar, Green Building Store+Enhabit, UK, February 17, 2021, ([Link](#)).
- 25.6.3. '*Introduction to Passivhaus (Part 1)*' CPD Webinar, Green Building Store+Enhabit, UK, January 13, 2021, ([Link](#)).
- 25.6.2. '*Introduction to Passivhaus (Part 2)*' CPD Webinar, Green Building Store+Enhabit, UK, June 11, 2021, ([Link](#)).
- 25.6.1. '*Case Study: Larch Corner Passivhaus*', CPD Webinar, Green Building Store+Enhabit, UK, May 05, 2021, ([Link](#)).

25.7. Mesh Energy Ltd

- 25.7.14. '*The circular economy in practice with Taleen Josefsson*', Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, October 26, 2021, ([Link](#)).
- 25.7.13. '*Delivering RIBA 2030: How to Optimise Your Design Process*', Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, June 23, 2021, ([Link](#)).
- 25.7.12. '*Technology Masterclass: Ground Source Heat Pumps*', Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, January 20, 2021, ([Link](#)).

- 25.7.11. *'Technology Masterclass: Evaporative Cooling'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, February 17, 2021, ([Link](#)).
- 25.7.10. *'Gary Wilburn Talks Innovative Commercial Sustainable Projects'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, December 02, 2020, ([Link](#)).
- 25.7.9. *'How to Deliver RIBA 2030 Commercial Projects: Case Studies'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, January 27, 2021, ([Link](#)).
- 25.7.8. *'Thermal Standards and Overheating'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, September 29, 2021, ([Link](#)).
- 25.7.7. *'Overheating: The Hidden Headache'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, February 03, 2021, ([Link](#)).
- 25.7.6. *'Zac Monro & Annalie Riches Talk Goldsmith St - Sterling Prize'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, January 13, 2021, ([Link](#)).
- 25.7.5. *'Zero to Hero: How to Build a Sustainable Practice to be Proud of'*, Credit: 1 Hour CPD, Mesh Energy Ltd, Cambridge, UK, December 16, 2020, ([Link](#)).
- 25.7.4. *'Approved Document Part O Webinar'*, Credits: 1 Hour CPD, Course Provider: Hertfordshire Building Control (HBC), May 18, 2022.
- 25.7.3. *'Energy Efficient Residential Ventilation Solutions Seminar'*, Credit: 1 Hour CPD, The Chartered Institution of Building Services Engineers (CIBSE), London, UK, April 06, 2021, ([Link](#)).
- 25.7.2. *'Energy Efficient Solutions for Improved Indoor Climate'*, Credit: 1 RIBA Hour CPD, Lindab Ltd Residential Ventilation, Northampton, UK, April 06, 2021, ([Link](#)).
- 25.7.1. *'Wall Insulation'*, Credit: 1.5 Hour CPD, Hertfordshire Building Control, May 19, 2021.

25.8. AEC Daily: American Institute of Architects (AIA) (Continuing Education Provider)

- 25.8.1. *'201 - Spray Foam in Commercial Design (SRA4221)'*, Course #: SPF201, Certificate #: 1628164914003, Credit: 1.0 AIA/HSW LU., AIA Continuing Education Provider: Huntsman Building Solutions - Demilec, Stand Alone Webinar - Huntsman Building Solutions, August 04, 2021.
- 25.8.2. *'A Complete Approach to Rainscreen Design (QXQ3998)'*, Course #: STO200801RNS, Certificate #: 1626890764174, Credit: 1.0 AIA/HSW LU. (Session Code: 22), AIA Continuing Education Provider: Sto Corp., AEC Daily Building Insight Event - Sto Corp., July 21, 2021.
- 25.8.3. *'Achieving Control and Peace of Mind with Connected Plumbing (WYV9344)'*, Course #: Zurn01, Certificate #: 1630508061704, Credit: 1.25 LU/HSW hour. (Session Code: 3), AIA Continuing Education Provider: Zurn Industries, LLC, Webinar - AEC Daily Building Insight Event: AIA/HSW, August 31, 2021.
- 25.8.4. *'Achieving Fire Suppression and Safety with Standpipe Systems (WHG5579)'*, Course #: Zurn03, Certificate #: 1617460410335, Credit: 1.0 AIA/HSW LU. (Session Code: 1), AIA Continuing Education Provider: Zurn Industries, LLC, WEBINAR - Zurn, March 30, 2021.
- 25.8.5. *'Achieving Precision Irrigation with Water Control and Safety Innovations (QNT8187)'*, Course #: Zurn13Irrigate, Certificate #: 1635942612766, Credit: 1.0 AIA/HSW LU. (Session Code: 1), AIA Continuing Education Provider: Zurn Industries, LLC, Building Insight Event - AEC Daily, November 2, 2021.

- 25.8.6. *'Achieving Sanitation and Safety with the Latest Plumbing Innovations (MPC1718)'*, Course #: 10, Certificate #: 1623929693589, Credit: 1.0 LU/HSW, AIA Continuing Education Provider: Zurn Industries, LLC., Building Insight Event - AEC Daily, June 15, 2021.
- 25.8.7. *'Achieving Style & Substance with the Newest Plumbing Innovations (GUZ1543)'*, Course #: Zurn02, Certificate #: 1614173230141, Credit: 1.0 AIA/HSW LU. (Session Code: 1), AIA Continuing Education Provider: Zurn Industries, LLC., WEBINAR - Zurn, February 23, 2021.
- 25.8.8. *'Acoustical Concepts II (VCS1662)'*, Course #: AIAACU102, Certificate #: 1627507703493, Credit: 1.0 LU/HSW hour. (Session Code: 12), AIA Continuing Education Provider: Unika Vaev, Webinar-Unika Vaev, July 28, 2021.
- 25.8.9. *'An Introduction to Steel Deck Framing (JZZ1167)'*, Course #: AIACE401077944, Certificate #: 1636492036222, Credit: 1.0 AIA/HSW LU (Session Code: 1), AIA Continuing Education Provider: Fortress Building Products, Stand Alone Webinar - Fortress Building Products, July 28, 2021.
- 25.8.10. *'Are Highly Permeable Membranes Too Permeable (MTX2769)'*, Course #: AIACESVS300.1, Certificate #: 1633636995328, Credit: 1.0 LU hour. (Session Code: 5), AIA Continuing Education Provider: VaproShield LLC, Webinar, September 30, 2021.
- 25.8.11. *'Benefits of Opaque Glass and Back Ventilated Complete Rainscreen Systems (SEC1326)'*, Course #: STO210801RNS, Certificate #: 1624559092961, Credit: 1.0 AIA/HSW LU. (Session Code: 16), AIA Continuing Education Provider: Sto Corp., Webinar - Sto Corp., June 23, 2021.
- 25.8.12. *'Benefits of Silicone Air & Water Resistive Barriers (IUG1963)'*, Course #: AWB2019-01, Certificate #: 1629401841734, Credit: 1.0 AIA/HSW LU. (Session Code: 10), AIA Continuing Education Provider: Momentive Performance Materials, Webinar, August 10, 2021.
- 25.8.13. *'Building Envelope Guidelines for Mass Timber (LXC4791)'*, Course #: AIACESVS110, Certificate #: 1630082270850, Credit: 1.0 LU hour. (Session Code: 7), AIA Continuing Education Provider: VaproShield LLC, Webinar, December 09, 2021.
- 25.8.14. *'Code Requirements for Fire Rated Doors and Hardware (WZK1925)'*, Course #: TD-CRF-F2F, Certificate #: 1636993915452, Credit: 1.0 AIA/HSW LU. (Session Code: 19), AIA Continuing Education Provider: VaproShield LLC, Stand Alone Webinar - Total Door, November 11, 2021.
- 25.8.15. *'Cold Liquid Applied Roofing and Waterproofing Systems (RYU8176)'*, Course #: KSA - 1, Certificate #: 1624624753524, Credit: 1.5 LU/HSW hours. (Session Code: 121), AIA Continuing Education Provider: Kemper System America, Inc., Building Insight Event - AEC Daily, June 22, 2021.
- 25.8.16. *'Color and Paint in Environments for the Aging (YMK7181)'*, Course #: BEN21-R20, Certificate #: 1616075042707, Credit: 1.0 LU/HSW hour. (Session Code: 5), AIA Continuing Education Provider: Benjamin Moore & Co., WEBINAR - Benjamin Moore, March 16, 2021.
- 25.8.17. *'Considerations for Advanced Green Façade Design (YVL4491)'*, Course #: 1, Certificate #: 1639604582785, Credit: 1.0 AIA/HSW LU. (Session Code: 70), AIA Continuing Education Provider: greenscreen®, Stand Alone Webinar - Greenscreen®, December 15, 2021.
- 25.8.18. *'Creating Distinctive and Attractive Designs on Precast Concrete Faces (MZH1154)'*, Course #: ALTCES116, Certificate #: 1624540010689, Credit: 1.0 AIA/HSW LU. (Session Code: 4), AIA Continuing Education Provider: AltusGroup, Webinar - Symposium, June 22, 2021.
- 25.8.19. *'Creative Acoustic Design (AAQ1756)'*, Course #: CAD2021, Certificate #: 1628704850764, Credit: 1.0 LU/HSW hour. (Session Code: 2), AIA Continuing Education Provider: Pinta Acoustic, August 11, 2021.

- 25.8.20. *'Design with Aluminum Full View Sectional Doors (RTR9743)'*, Course #: 002, Certificate #: 1638536962941, Credit: 1.0 AIA/HSW LU. (Session Code: 63), AIA Continuing Education Provider: Amarr Commercial Overhead Doors, Stand Alone Webinar - Amarr, December 02, 2021.
- 25.8.21. *'Design with Sectional Overhead Doors for Safety and Security (VRX2338)'*, Course #: 005, Certificate #: 1636512132336, Credit: 1.0 AIA LU. (Session Code: 14), AIA Continuing Education Provider: Amarr Commercial Overhead Doors, Stand Alone Webinar - Amarr, November 09, 2021.
- 25.8.22. *'Designing Rooms for Acoustics (NRI9637)'*, Course #: 3form15, Certificate #: 1610543513054, Credit: 1.0 LU/HSW hour. (Session Code: 84), AIA Continuing Education Provider: 3form, LLC, WEBINAR - 3form, January 12, 2021.
- 25.8.23. *'Designing Rough Openings for Proper Drainage and Drying (EVE2681) '*, Course #: AIACESVS301, Certificate #: 1636131617170, Credit: 1.0 LU hour. (Session Code: 10), AIA Continuing Education Provider: VaproShield LLC, Webinar, November 04, 2021.
- 25.8.24. *'Designing Touchless Solutions for Proper Hand Hygiene in Commercial Restrooms (MEH4151)'*, Course #: THCR, Certificate #: 1610662004596, Credit: 1.0 LU/HSW hour. (Session Code: 2), AIA Continuing Education Provider: Excel Dryer, Webinar, January 13, 2021.
- 25.8.25. *'Designing with Commercial/Industrial Insulated Metal Wall Panels (NCW4768)'*, Course #: IMP006, Certificate #: 1627309369353, Credit: 1.0 AIA/HSW LU. (Session Code: 18), AIA Continuing Education Provider: Metl-Span, a Nucor company, Metl-Span Webinar Ohlin and Reed, July 22, 2021.
- 25.8.26. *'Electronic Locking Devices for Access Control Systems (LTN4249)'*, Course #: DSI AIA.1A, Certificate #: 1629403546036, Credit: 1.0 AIA/HSW LU. (Session Code: 10), AIA Continuing Education Provider: Dortronics Systems. Inc., Stand Alone Webinar - Dortronics, August 19, 2021.
- 25.8.27. *'Eliminating Concrete Moisture Through Sustainable Design (YMR5337)'*, Course #: ISL03K, Certificate #: 1628098472326, Credit: 1.0 AIA/HSW LU. (Session Code: 17), AIA Continuing Education Provider: ISE Logik Industries, Inc., Stand Alone Webinar - ISE Logik Industries, August 04, 2021.
- 25.8.27. *'Enhancing Spaces with Translucent Panel Daylighting Systems (UGT5957)'*, Course #: FRP1902, Certificate #: 1629309294140, Credit: 1.0 AIA/HSW LU. (Session Code: 69), AIA Continuing Education Provider: Major Industries, Inc., WEBINAR - Major Industries, August 18, 2021.
- 25.8.28. *'Expansion Joint Critical Knowledge (YAW1463)'*, Course #: Inpro1800, Certificate #: 1628795729581, Credit: 1.0 AIA LU. (Session Code: 14), AIA Continuing Education Provider: Inpro Corporation, Webinar - Inpro, August 18, 2021.
- 25.8.29. *'Extending the Life of the Roofing Assembly (PDY3517)'*, Course #: AIACESVS105, Certificate #: 1634851308941, Credit: 1.0 LU hour. (Session Code: 14), AIA Continuing Education Provider: VaproShield LLC, Webinar, October 21, 2021.
- 25.8.29. *'Exterior Cladding Innovation: Rainscreen Design with Ultracompact Surfacing (NBQ2135)'*, Course #: COSFc20, Certificate #: 1612988909046, Credit: 1.0 LU/HSW hour. (Session Code: 62), AIA Continuing Education Provider: Cosentino North America, Webinar - Davis Brody Bond, February 09, 2021.
- 25.8.30. *'FEVE Architectural Coatings: High-Performance Coatings for Expansive, Sustainable Design (MAB1355)'*, Course #: IAG09I, Certificate #: 1624624299704, Credit: 1.0 AIA/HSW LU. (Session Code: 10), AIA Continuing Education Provider: Lumiflon, Building Insight - AEC Daily, June 22, 2021.

- 25.8.31. *'Five Unexpected Advantages of Concrete Masonry (YXW6292)'*, Course #: CPG 036, Certificate #: 1632853124693, Credit: 1.0 AIA/HSW LU. (Session Code: 1), AIA Continuing Education Provider: Concrete Products Group, September 28, 2021.
- 25.8.32. *'Gateways to Performance Comparison (ECK5564)'*, Course #: WPL08A, Certificate #: 1637267139753, Credit: 1.0 AIA/HSW LU. (Session Code: 7), AIA Continuing Education Provider: Plastpro, Stand Alone Webinar - Plastpro, November 18, 2021.
- 25.8.33. *'Hardwood Floor Finishing (FPY5681)'*, Course #: BONA101A, Certificate #: 1636638988829, Credit: 1.0 AIA/HSW LU. (Session Code: 90), AIA Continuing Education Provider: Bona US, Stand Alone Webinar - Bona US, November 10, 2021.
- 25.8.34. *'Insulated Metal Panels Barrier Wall Systems (FZY6112)'*, Course #: IMP014, Certificate #: 1613136420758, Credit: 1.0 AIA/HSW LU. (Session Code: 6), AIA Continuing Education Provider: Metl-Span, a Nucor company, WEBINAR - Metl-Span, February 11, 2021.
- 25.8.35. *'Integrated Door Assemblies as a Solution to Common Opening Problems (DRY3689)'*, Course #: IDOA07012019, Certificate #: 1638907346698, Credit: 1.0 AIA/HSW LU. (Session Code: 56), AIA Continuing Education Provider: Syntégra integrated doors by design, Stand Alone Webinar - Syntégra, December 07, 2021.
- 25.8.36. *'Introduction to High Density Parking Systems (LZZ6431)'*, Course #: PPHDP101, Certificate #: 1630418204136, Credit: 1.0 LU/HSW hour. (Session Code: 32), 920024492USGBC/GBCI, AIA Continuing Education Provider: PARKPLUS Inc., Webinar-PARKPLUS, August 27, 2021.
- 25.8.37. *'Lab Vacuum Options for Science Labs: Maximizing Building Performance & Sustainability (JHQ8782)'*, Course #: VAC0103, Certificate #: 1610636865581, Credit: 1.0 AIA/HSW LU. (Session Code: 12), AIA Continuing Education Provider: VACUUBRAND, WEBINAR - Vacuubrand, January 13, 2021.
- 25.8.38. *'Life-Safety: Head-of-Wall Fire-Resistance and Design Considerations (ANU7716)'*, Course #: CD 015, Certificate #: 1634223368070, Credit: 1.0 AIA/HSW LU. (Session Code: 29), AIA Continuing Education Provider: ClarkDietrich, October 13, 2021.
- 25.8.39. *'Masonry and Energy Code (IYY2155)'*, Course #: CPG 002A, Certificate #: 1633630384493, Credit: 1.0 LU/HSW hour. (Session Code: 5), AIA Continuing Education Provider: Concrete Products Group, October 07, 2021.
- 25.8.40. *'Masonry Specifications and Detailing for Problem Free Projects (SMK9617)'*, Course #: CPG-012, Certificate #: 1628619259603, Credit: 1.0 LU/HSW hour. (Session Code: 3), AIA Continuing Education Provider: Concrete Products Group, August 10, 2021.
- 25.8.41. *'Movable Pool & Spa Floors (YXZ7641)'*, Course #: Twinscape1, Certificate #: 1639600174435, 1628619259603, Credit: 1.0 LA CES/HSW PDH., AIA Continuing Education Provider: Twinscape North America LLC., AEC Daily Stand Alone Webinar - Twinscape, August 10, 2021.
- 25.8.42. *'Open Air Steel Structures - Adding Value to the Built Environment (BPT5559)'*, Course #: CEAS2021, Certificate #: 1626891093959, Credit: 1.0 LU/HSW hour. (Session Code: 9), AIA Continuing Education Provider: CEAS+, Holland, July 21, 2021.
- 25.8.43. *'Optimized Insulation (IYZ3291)'*, Course #: OPTInsul, Certificate #: 1612987242307, Credit: 1.0 LU/HSW hour. (Session Code: 3), AIA Continuing Education Provider: Firestone Building Products, WEBINAR - Firestone, February 09, 2021.

- 25.8.44. *'Outdoor Kitchen Design with Stainless Steel Cabinetry (GIJ3166)'*, Course #: DBJOK101B, Certificate #: 1610544232222, Credit: 1.0 LU/HSW hour. (Session Code: 37), AIA Continuing Education Provider: Brown Jordan Outdoor Kitchens, Webinar - Brown Jordan Outdoor Kitchens, January 12, 2021.
- 25.8.45. *'Part II: Re-Solution: Sustainable Solutions and Hygrothermal Principles for Existing Buildings (HMD2836)'*, Course #: AIACESVS303, Certificate #: 1637365131421, Credit: 1.0 LU/HSW hour. (Session Code: 3), VaproShield LLC, Webinar, November 18, 2021.
- 25.8.46. *'Polyiso - The Next Generation Air & Water Resistive Barrier (FJH9449)'*, Course #: Rmax2021-01, Certificate #: 1640912225757, Credit: 1.0 LU/HSW hour. (Session Code: 15), Rmax - A Division of the Sika Corporation, ABAA, December 30, 2021.
- 25.8.47. *'Pre-Engineered/Manufactured Shelters: Standard and Custom Solutions for Outdoor Spaces (XEJ1138)'*, Course #: ISS-001, Certificate #: 1623935134387, Credit: 1.25 AIA LU. (Session Code: 6), ICON Shelter Systems, Inc., Stand Alone Webinar - ICON Shelter Systems, June 16, 2021.
- 25.8.48. *'Preventing Floorcovering Failures Through Integrated Design (SSK2472)'*, Course #: ISL03I, Certificate #: 1623930391908, Credit: 1.0 AIA/HSW LU. (Session Code: 8), ISE Logik Industries, Inc., Building Insight Event: AEC Daily, June 15, 2021.
- 25.8.49. *'Proactively Address Moisture in Roof Assemblies (DKX5859)'*, Course #: ISL03G, Certificate #: 1635358719754, Credit: 1.0 AIA/HSW LU. (Session Code: 17), ISE Logik Industries, Inc., Stand Alone Webinar - ISE Logik Industries, June 15, 2021.
- 25.8.50. *'Redefining Rooftops: Understanding Rooftop Deck Systems (VDP5175)'*, Course #: AEC450, Certificate #: 1614172277366, Credit: 1.0 AIA/HSW LU. (Session Code: 15), Bison Innovative Products, Webinar - Bison -, February 23, 2021.
- 25.8.51. *'Rooftop Snow Retention Solving the Mystery with the Facts (Ayy3394)'*, Course #: TRA2020, Certificate #: 1626900995819, Credit: 1.0 LU/HSW hour. (Session Code: 25), TRA Snow & Sun, TRA Snow and Sun, July 21, 2021.
- 25.8.52. *'Smoke Containment Strategies for Elevator Hoistways and Lobbies (WWI9281)'*, Course #: TD-SCSEH-F2F, Certificate #: 1631280974752, Credit: 1.0 AIA/HSW LU., Total Door, Webinar - AEC Daily Building Insight Event, September 09, 2021.
- 25.8.53. *'Specification Strategies to Eliminate Concrete Moisture (NGX9963)'*, Course #: ISL03H, Certificate #: 1630508970808, Credit: 1.0 AIA/HSW LU. (Session Code: 143), ISE Logik Industries, Inc., Webinar - Building Insight Event, August 31, 2021.
- 25.8.54. *'Sustainable Design Through Daylighting (MNI9158)'*, Course #: KAL012, Certificate #: 1612986374404, Credit: 1.0 AIA/HSW LU., Kalwall Corporation, Stand Alone Webinar - AEC Daily, February 09, 2021.
- 25.8.55. *'Sustainable Design Using Highly Insulated Diffused Natural Daylight (ABI4144)'*, Course #: 03304111, Certificate #: 1621598171165, Credit: 1.0 LU/HSW hour., Kalwall Corporation, Kalwall Corporation, May 20, 2021.
- 25.8.56. *'Sustainable Design with Redwood Timbers (IZZ9466)'*, Course #: HRC001, Certificate #: 1614885646791, Credit: 1.0 LU/HSW hour., Humboldt Sawmill Company, WEBINAR - Humboldt Sawmill, May 03, 2021.
- 25.8.57. *'The Advantages of an IMP Roof (CNG5258)'*, Course #: IMP621, Certificate #: 1629287629504, Credit: 1.0 AIA/HSW LU. (Session Code: 1), MCA's Insulated Metal Panel Alliance, Webinar - Metal Construction Association, August 17, 2021.

- 25.8.58. *'The Benefits of Mineral Wool as a Continuous Insulation Solution (BYS7184)'*, Course #: MWCI-10-19, Certificate #: 1617740771522, Credit: 1.0 LU/HSW hour. (Session Code: 29), Owens Corning, SCB Webinar, April 06, 2021.
- 25.8.59. *'The Benefits of Rainscreen Design (UIR8567)'*, Course #: AIACESVS500, Certificate #: 1631220017669, Credit: 1.0 LU hour. (Session Code: 21), VaproShield LLC, Webinar, September 09, 2021.
- 25.8.60. *'The Specifier's Guide to Frameless Glass Railing Solutions (BAU8997)'*, Course #: 113384, Certificate #: 1610544887387, Credit: 1.0 LU/HSW hour. (Session Code: 3), Q-railing, WEBINAR - Q-Railing, January 12, 2021.
- 25.8.61. *'Thermal Bridging & Thermal Break Solutions (VAI3626)'*, Course #: FABTBS02, Certificate #: 1612987920459, Credit: 1.0 LU/HSW hour. (Session Code: 2), Fabreeka, Webinar - Fabreeka, February 09, 2021.
- 25.8.62. *'Turnstiles for Enhanced Access Control & Management (WHE5857)'*, Course #: SEC-101AMC2020, Certificate #: 1617459876040, Credit: 1.0 LU/HSW hour. (Session Code: 1), Alvarado Manufacturing Co., WEBINAR - Alvarado Manufacturing, March 30, 2021.
- 25.8.63. *'Versatile Aluminum Railing Systems: Quick to Install, Designed to Last (RLU8546)'*, Course #: AR_101, Certificate #: 1630508323865, Credit: 1.0 LU/HSW hour. (Session Code: 15), Feeney Inc., Webinar - AEC Daily Building Insight Event, August 31, 2021.
- 25.8.64. *'Waterstops for Environmental Compliance of Liquid Tight Concrete Structures (YIT1122)'*, Course #: ACI 350, Certificate #: 1629255347688, Credit: 1.0 AIA LU. (Session Code: 3), JP Specialties, Inc., Stand Alone Webinar - JP Specialties, August 17, 2021.
- 25.8.65. *'Achieving Energy Efficiency with Skylights in the Building Envelope (MEL3427)'*, Certificate #: 1630518325801, Artistic Skylight Domes, Webinar - Artistic Skylight Domes, September 01, 2021.

25.9. Building Education: American Institute of Architects (AIA) Continuing Education Provider

- 25.9.1. *'Creating a Recycling Program'*, AIA Course #: AIACES092617, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, September 26, 2017. ([Link](#))
- 25.9.2. *'Harnessing the Power of Glass to Optimize Appearance & Performance'*, AIA Course #: AIACES092617, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, September 26, 2017. ([Link](#))
- 25.9.3. *'How to Specify Climate Positive Materials'*, AIA Course #: AIACES061120, Provider #: 40119203, Credit: 1.0 AIA Learning Unit (LU), Buildings Education, June 11, 2020. ([Link](#))
- 25.9.4. *'How to Future-Proof Your Building'*, AIA Course #: AIACES092018, Provider #: 40119203, Credit: 1.0 AIA Learning Unit (LU), Buildings Education, September 20, 2018. ([Link](#))
- 25.9.5. *'Minimizing the Radius of Distraction: A Guide to Speech Privacy Concerns & Sound Making Systems'*, AIA Course #: AIACES073118, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, July 31, 2018. ([Link](#))
- 25.9.6. *'Path to Energy Saving in the Building Envelope'*, AIA Course #: AIACES031218, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, March 26, 2018. ([Link](#))
- 25.9.7. *'Sustainable Locker Materials and Solutions for Every Place and Purpose'*, AIA Course #: AIACES050117, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, July 13, 2020. ([Link](#))

- 25.9.8. *'Five Trends Transforming the Office Space & the Impact on Your Bottom Line'*, AIA Course #: AIACES042717, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, April 27, 2017. ([Link](#))
- 25.9.9. *'Indoor Air Quality Best Practices'*, AIA Course #: AIACES060419, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, June 04, 2019. ([Link](#))
- 25.9.10. *'Solving Facility Manager's Problems with LED Lighting Solutions'*, AIA Course #: AIACES062717, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 27, 2017. ([Link](#))
- 25.9.11. *'Hit Your Production Targets by Throwing Out Your Old Haigh Bays'*, AIA Course #: AIACES030717, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, March 07, 2017. ([Link](#))
- 25.9.12. *'COVID-19 and the Built Environment'*, AIA Course #: AIACES040820, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, April 08, 2020. ([Link](#))
- 25.9.13. *'The New Normal for O&M'*, AIA Course #: AIACES052120, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, May 21, 2020. ([Link](#))
- 25.9.14. *'Access Control 2020: The State of the Industry'*, AIA Course #: AIACES060220, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, June 02, 2020. ([Link](#))
- 25.9.15. *'Saving Time and Money with Lightweight Building Management Systems'*, AIA Course #: AIACES021320, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, February 13, 2020. ([Link](#))
- 25.9.16. *'Energy and Building Management Solutions Using the Internet of Things'*, AIA Course #: AIACES121118, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, December 11, 2018. ([Link](#))
- 25.9.17. *'Fine Tuning HVAC Controls for Maximum Efficiency'*, AIA Course #: AIACES0120418, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, December 04, 2018. ([Link](#))
- 25.9.18. *'Common Pitfalls When Installing HVAC Sensors'*, AIA Course #: AIACES0101118, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, October 11, 2018. ([Link](#))
- 25.9.19. *'The Fire Steps of Adding Intelligence to Your Facility'*, AIA Course #: AIACES091318, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, September 13, 2018. ([Link](#))
- 25.9.20. *'The Power of Data - Transform Your Building from an Expense to a Dynamic Asset'*, AIA Course #: AIACES071718, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, July 17, 2018. ([Link](#))
- 25.9.21. *'Learn How to Improve Operations, Buildings Performance and Maintenance- A Digital Services Transformation'*, AIA Course #: AIACES092817, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, September 28, 2017. ([Link](#))
- 25.9.22. *'Disaster Preparation and Recovery'*, AIA Course #: AIACES031220, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, March 12, 2020. ([Link](#))
- 25.9.23. *'Curbing the Cost of Data Center Cooling'*, AIA Course #: AIACES071119, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, July 11, 2019. ([Link](#))

- 25.9.24. *'Free Cooling Fundamentals for Data Centers'*, AIA Course #: AIACES062019, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 20, 2019. ([Link](#))
- 25.9.25. *'HVAC Design Strategies to Reduce Data Center Cooling Costs'*, AIA Course #: AIACES082818, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, August 28, 2018. ([Link](#))
- 25.9.26. *'Optimizing Existing Data Centers to Increase Efficiencies & Lower Operating Costs'*, AIA Course #: AIACES052318, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, May 23, 2018. ([Link](#))
- 25.9.27. *'Disaster Protection and Recovery'*, AIA Course #: AIACES031220, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, March 12, 2020. ([Link](#))
- 25.9.28. *'Active Shooter Planning: what is Your Integrated Hostile Event Strategy?'*, AIA Course #: AIACES062519, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, June 25, 2019. ([Link](#))
- 25.9.29. *'Open Space Electrical and Digital Infrastructure'*, AIA Course #: AIACES102219, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, October 22, 2019. ([Link](#))
- 25.9320. *'Get Outside: Taking Advantage of Your Outdoor Space with Smart, Sustainable Design'*, AIA Course #: AIACES091719, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, September 17, 2019. ([Link](#))
- 25.9.31. *'How to Increase Productivity and Engagement in Outdoor Spaces'*, AIA Course #: AIACES081518, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, October 02, 2018. ([Link](#))
- 25.9.32. *'Three Solutions for Plug Load Control: Understanding Your Needs and Exploring Your Options'*, AIA Course #: AIACES061818, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 18, 2018. ([Link](#))
- 25.9.33. *'Powering Up Your Energy Procurement'*, AIA Course #: AIACES091217, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, September 12, 2017. ([Link](#))
- 25.9.34. *'Plug Load Control: Reducing Your Energy Bills & Addressing Code Changes'*, AIA Course #: AIACES091217, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, September 12, 2017. ([Link](#))
- 25.9.35. *'Energy Code Basics: Plug Load & Lighting Controls'*, AIA Course #: AIACES020117, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, July 13, 2020. ([Link](#))
- 25.9.36. *'Creating Productive, Connected Outdoor Spaces with Access to Permanent Power'*, AIA Course #: AIACES013117, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, July 13, 2020. ([Link](#))
- 25.9.37. *'From the Ground Up: Flooring Considerations for the Retrofit Market'*, AIA Course #: AIACES0120716, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, January 24, 2017. ([Link](#))
- 25.9.38. *'Save Energy with Your HVAC System'*, AIA Course #: AIACES021120, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, February 11, 2020. ([Link](#))
- 25.9.39. *'Optimize Your HVAC for Every Season'*, AIA Course #: AIACES110719, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, November 07, 2019. ([Link](#))

- 25.9.40. *'HVAC Maintenance: Dos, Don'ts and Disasters'*, AIA Course #: AIACES081519, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, August 15, 2019. ([Link](#))
- 25.9.41. *'VFD 101'*, AIA Course #: AIACES071619, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, July 16, 2019. ([Link](#))
- 25.9.42. *'The Benefits of Energy and Domestic Water Submetering'*, AIA Course #: AIACES061119, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 11, 2019. ([Link](#))
- 25.9.43. *'VRF: Best Practices for Integration and Operation'*, AIA Course #: AIACES0110818, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, November 08, 2018. ([Link](#))
- 25.9.44. *'Hot Strategies for Efficient Cooling'*, AIA Course #: AIACES0100418, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, October 04, 2018. ([Link](#))
- 25.9.45. *'Achieve Better Chiller Control'*, AIA Course #: AIACES091818, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, September 18, 2018. ([Link](#))
- 25.9.46. *'Your ROI with VFDs'*, AIA Course #: AIACES071218, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA6, Buildings Education, July 12, 2018. ([Link](#))
- 25.9.47. *'Why Submetering is Crucial for Reducing Energy Use and Cost'*, AIA Course #: AIACES062818, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 28, 2018. ([Link](#))
- 25.9.48. *'Portable Air Conditioners Taming Hot Summer Temperatures: Keeping People & Networks Safe'*, AIA Course #: AIACES080917, Provider #: 40119203, Credit: 1.0 LU/HSW Learning Unit form the AIA, Buildings Education, August 09, 2017. ([Link](#))
- 25.9.49. *'Maximize Your Return from HVAC Maintenance Plans'*, AIA Course #: AIACES071817, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 18, 2017. ([Link](#))
- 25.9.50. *'Exploring the Long-Term, Temporary, & Emergency Applications of Portable Cooling'*, AIA Course #: AIACES060117, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, June 01, 2017. ([Link](#))
- 25.9.51. *'Why Submetering is Crucial for Reducing Energy Consumption & Cost'*, AIA Course #: AIACES052317, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, May 23, 2017. ([Link](#))
- 25.9.52. *'Premiumization Primes Growth'*, AIA Course #: AIACES121919, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, December 19, 2019. ([Link](#))
- 25.9.53. *'Optimized Connectivity for Changing Office Spaces'*, AIA Course #: AIACES102419, Provider #: 40119203, Credit: 1.0 Learning Unit (LU) form the AIA, Buildings Education, December 19, 2019. ([Link](#))
- 25.9.54. *'Tackling the New Normal: Keys for Success After Reopening Buildings'*, AIA Course #: AIACES102419, Provider #: 40119203, Credit: 1.0 BOC Maintenance Point toward Credential Maintenance, Buildings Education, June 23, 2020. ([Link](#))
- 25.9.55. *'Integrative Process and Whole Canopy System Solution Design'*, AIA Course #: AIACES102419, Provider #: 40119203, Credit: 1.0 Continuing Professional Development (CPD) Credit from BOMI International for RPA, FMA, or SMA Designation Programs, Buildings Education, July 13, 2020. ([Link](#))

25.10. Hanley Wood University: American Institute of Architects (AIA) (Continuing Education Provider)

- 25.10.1. *'Resilient Design and the Evolving Standard of Care'*, AIA Course #: AXAXLLV0522, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, May 19, 2022.
- 25.10.2. *'Deep Connections: Planet + People'*, AIA Course #: MOHLV0522, IDCEC Course #: CC-116594-1001, GBCI Course #: 0920023485, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & GBCI 1 General CE Hour & IDCEC 0.1 CEU HSW, Hanley Wood University - Online, May 18, 2022.
- 25.10.3. *'Life Cycle Assessment of Concrete Buildings'*, AIA Course #: LVNRMCA422, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, April 14, 2022.
- 25.10.4. *'Design Options for Aluminum Balconies and Awnings'*, AIA Course #: LVInnotech322, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, March 24, 2022.
- 25.10.4. *'Architectural Details of the Control Layer (Home Building Crossroads)'*, AIA Course #: HBCF_2018_3, Provider #: K029, Session Code: 16, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, August 19, 2020.
- 25.10.5. *'Building Science Foundation: Keeping Our Homes Safe and Sound (Home Building Crossroads)'*, AIA Course #: HBCF_2018_2, Provider #: K029, Session Code: 16, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, August 19, 2020.
- 25.10.6. *'Propane Tankless Water Heating in Commercial Building Applications - Live Virtual Summit'*, AIA Course #: HWLIVEPTA20-1, IDCEC Course #: Conf#=SE-10986-106, Provider #: K137, Session Code: 1, Score: 100%, Credits: AIA 1.00 LU | Elective & IDCEC 0.10 CEU, Hanley Wood University, November 05, 2020.
- 25.10.7. *'Solid Surface Solutions for Wash Stations Live Virtual Summit'*, AIA Course #: HWLIVEBRAD1120, IDCEC Course #: Conf#=SE-10986-105, Provider #: J602, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.10 CEU HSW, Hanley Wood University - Online, November 05, 2020.
- 25.10.8. *'The Science of Fire: Reaction and Resistance with Insulated Metal Panel - Live Virtual Summit'*, AIA Course #: HWLIVEKS2020, IDCEC Course #: Conf#=SE-10986-107, Provider #: K240, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.10 CEU HSW, Hanley Wood University, November 06, 2020.
- 25.10.9. *'Managing Condensation and Thermal Performance with Continuous Insulation Live Virtual Summit'*, AIA Course #: HWLIVEHUB1120, IDCEC Course #: Conf#=SE-10986-108, Provider #: K094, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.10 CEU HSW, Hanley Wood University - Online, November 06, 2020.
- 25.10.10. *'Airtight, Done Right: Simple and Efficient Strategies (Home Building Crossroads)'*, AIA Course #: CW-HBC-F2020, Provider #: K094, Session Code: 3, Score: 100%, Credits: AIA 1.5 LU | Elective, Hanley Wood University - Webinar - Online, December 17, 2020.
- 25.10.11. *'Facade Design Tools for High-rise Carbon Neutral Buildings'*, AIA Course #: 2017GB_F08, GBCI Course #: 920016567, Provider #: K029, Session Code: A, Score: 90%, Credits: AIA 1 LU | HSW & GBCI 1 CE Hour for LEED GREEN ASSOCIATE & GBCI 1 CE Hour for WELL AP, Hanley Wood University - Online, May 04, 2021.
- 25.10.12. *'It's Electrifying! Decarbonization Policies for Achieving ZERO Now'*, AIA Course #: HWCPELEC2020, GBCI Course #: 0920021619, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & GBCI 1 General CE Hour, Hanley Wood University - Online, May 04, 2021.

- 25.10.13. *'The Energy of Color - Live Webinar'*, AIA Course #: HSHWULWBR0621, IDCEC Course #: CC114498, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | Elective & IDCEC 0.1 CEU & PDH Potential 1 Hour, Hanley Wood University, June 10, 2021.
- 25.10.14. *'Enduring Beauty: High Performing Polymer Cladding Systems - Live Webinar'*, AIA Course #: HSHWULVAZ0621, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & PDH Potential 1 Hour, Hanley Wood University, June 16, 2021.
- 25.10.15. *'Designing with Metal Wall Panels - Live Webinar'*, AIA Course #: HSHWULVAT1121, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University, November 10, 2021.
- 25.10.16. *'Advantages of Concrete in Low- to Mid-Rise Multifamily'*, AIA Course #: VESNRMCA1221, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University - Online, December 08, 2021.
- 25.10.17. *'Detailing the Building Enclosure Interfaces - Identifying Areas of Concern Throughout the Construction Process - Live Webinar'*, AIA Course #: HSHWLVTTR1221, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University, December 15, 2021.
- 25.10.18. *'Balancing Sustainability and Cost in High Performance Projects - Live Webinar'*, AIA Course #: HSHWULVCT0222, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University, February 03, 2022.
- 25.10.19. *'Efficient Design Utilizing Decorative Guardrails - Live Event'*, AIA Course #: HWVES720-TREX, IDCEC Course #: CC-112142-1001, Provider #: 40107730, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.1 CEU HSW, Hanley Wood University, July 29, 2020.
- 25.10.20. *'Glass Production, Processing and Performance - Live Virtual Summit'*, AIA Course #: HWLIVEVIT1120, IDCEC Course #: Conf#=SE-10986-100, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | Elective & IDCEC 0.1 CEU, Hanley Wood University, November 04, 2020.
- 25.10.21. *'Innovative Paver for Projects of Distinction - Live Virtual Summit'*, AIA Course #: HWLIVEHV2020-1, IDCEC Course #: Conf#=SE-10986-102, Provider #: J865, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.1 CEU, Hanley Wood University - Online, November 04, 2020.
- 25.10.22. *'Panel Discussion: Revisiting Restroom Hygiene & Planning: Design Strategies in the Post-COVID era - Live Event'*, AIA Course #: HWVES720-BOB, IDCEC Course #: SE-10951-100, Provider #: J837, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & IDCEC 0.1 CEU, Hanley Wood University, July 28, 2020.
- 25.10.23. *'Reducing Fire Risk at the Perimeter of High Rise - Virtual Live Event'*, AIA Course #: HWWEBOC102020, Provider #: K009, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & PDH Potential 1 Hour, Hanley Wood University, October 28, 2020.
- 25.10.24. *'Sustainable Design with Redwood Timbers - Live Event'*, AIA Course #: HWVES720-HR, Provider #: 404108507, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW, Hanley Wood University, July 28, 2020.
- 25.10.25. *'The Importance of Improving Hygiene in Commercial Restrooms - Live Virtual Summit'*, AIA Course #: HWLIVESLO1120, GBCI Course #: 0920022846, IDCEC Course #: Conf#=SE-10986-103, Provider #: K029, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & GBCI 1 General CE Hour & IDCEC 0.1 CEU HSW, Hanley Wood University, November 04, 2020.
- 25.10.26. *'The Therapeutic Benefits of Perceived Open Space for Healthcare Patients and Staff - Live Virtual Event'*, AIA Course #: HWLIVESF2020, Provider #: K170, Session Code: 1, Score: 100%, Credits: AIA 1 LU | HSW & PDH Potential 1 Hour, Hanley Wood University, November 12, 2020.

25.10.27. *'Vegetative and Protective Membrane Roof Assemblies: What Lies Beneath Live Event'*, AIA Course #: HWVES720-OC2, Provider #: K009, Session Code: 1, Score: 100%, Credits: AIA 1.5 LU | HSW, Hanley Wood University, July 29, 2020.

25.11. [CE BNP](#): American Institute of Architects (AIA) (Continuing Education Provider)

- 25.11.1. *'Basics and Beyond Understanding and Designing with Fire-Rated Glass & Framing'*, AIA Course #: K2306G, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU, AIA/CES Provider: BNP Media, June 06, 2023.
- 25.11.2. *'Operational Energy Basics for Sustainable Architectural Design'*, AIA Course #: K2305M, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 1 ZNCD CEU - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 25, 2023.
- 25.11.3. *'Glass Entrances - A Review of Hardware, Codes, and Aesthetics'*, AIA Course #: K2305L, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 11, 2023.
- 25.11.4. *'Inclusive Schools: Building Accessible Learning Environments'*, AIA Course #: K2305C, ADA Course #:K2305C, AIBD Course #:K2305C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 10, 2023.
- 25.11.5. *'Reimagine the Outdoor Experience: Understanding Rooftop Deck Systems'*, AIA Course #: K2305G, IIBEC Course #: K2305G, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 0.1 ICC CEU - 1 IIBEC CEH - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 03, 2023.
- 25.11.6. *'You Have the Data, Now What? Invoicing, Billing and Budgeting Best Practices for Architects'*, AIA Course #: K2304M, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, April 26, 2023.
- 25.11.7. *'Metal Roofs and Walls from Aluminum to Zinc'*, AIA Course #: BE042023, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, April 20, 2023.
- 25.11.8. *'Updates in Whole Building Airtightness Testing'*, AIA Course #: BE040623, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 1 IIBEC CEH - 0.1 IACET CEU, AIA/CES Provider: BNP Media, April 06, 2023.
- 25.11.9. *'Alternative Forms of Practice: Architecture and Advocacy'*, AIA Course #: K2304C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU, AIA/CES Provider: BNP Media, April 04, 2023.
- 25.11.10. *'Alternative Forms of Practice: Architecture and Advocacy'*, AIA Course #: K2304C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU, AIA/CES Provider: BNP Media, April 04, 2023.
- 25.11.11. *'Mass Timber Building Enclosures'*, AIA Course #: K2303V, AIBD Course #: K2303V, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, March 29, 2023.
- 25.11.12. *'Glass Railing Systems: Fundamentals of Design, Application, and Codes'*, AIA Course #: K2303T, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, March 28, 2023.
- 25.11.13. *'Hitting a Wall: Avoiding Chaos with Building Enclosure Details'*, AIA Course #: BE032823, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, March 28, 2023.

- 25.11.14. *'Applications and Requirements for Roofing Adhesives in Membrane and Insulation Attachments'*, AIA Course #: BE022323, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, February 23, 2023.
- 25.11.15. *'Roofing Risks: How to Avoid Costly Mistakes'*, AIA Course #: BE112922, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, January 26, 2023.
- 25.11.16. *'Roofing Risks: How to Avoid Costly Mistakes'*, AIA Course #: BE112922, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, January 26, 2023.
- 25.11.17. *'Managing Sound In the Wide Open Spaces'*, AIA Course #: K2301C, AIBD Course #:K2301C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 0.1 ICC CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, January12, 2023.
- 25.11.18. *'Emerging Trends in High-Performance Building Enclosures'*, AIA Course #: BE121422, GBCI Course #: 0920026925, LEED_AP_BD Course #: 0920026925, LEED_GA Course #: 0920026925, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour, 1 IIBEC CEH, 1 LEED_GA CEU, 1 LEED_AP_BD CEU, AIA/CES Provider: BNP Media, December 14, 2022.
- 25.11.19. *'The Art of Terra Cotta & Color'*, AIA Course #: K2212L, IIBEC Course #:K2212L, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 0.1 ICC CEU - 1 IIBEC CEH - 1 AIBD P-CE, AIA/CES Provider: BNP Media, December 13, 2022.
- 25.11.20. *'Moisture Movement in Building Enclosures'*, AIA Course #: BE121322, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, December 13, 2022.
- 25.11.21. *'The Three R's of Terrazzo: Restoration, Renovation, Refinishing'*, AIA Course #: K2211C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 17, 2022.
- 25.11.22. *'How Do Roofs Defend Against Hail Damage?'*, AIA Course #: BE111722, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, November 17, 2022.
- 25.11.23. *'Wood in Architecture: Education Design'*, AIA Course #: K2211H, AIBD Course #: K2211H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 ICC CEU - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 16, 2022.
- 25.11.24. *'Designing High-Performance Multifamily Residential Buildings'*, AIA Course #: K2211G, GBCI Course #: 0920026997, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour, 0.1 ICC CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 15, 2022.
- 25.11.25. *'Speed is the New Green'*, AIA Course #: K2211G, GBCI Course #: 0920026997, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour, 0.1 ICC CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 15, 2022.
- 25.11.26. *'Polyiso Continuous Insulation: The Next Generation Air & Moisture Barrier'*, AIA Course #: BE111022, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 1 IIBEC CEH - 0.1 IACET CEU, AIA/CES Provider: BNP Media, November 10, 2022.
- 25.11.27. *'Building Resiliency in Healthcare Spaces'*, AIA Course #: K2210Q, AIBD Course #: K2210Q, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 10, 2022.

- 25.11.28. *'Speed is the New Green'*, AIA Course #: K2211K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 0.1 ICC CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 09, 2022.
- 25.11.29. *'Redefining Rooftops: Understanding Rooftop Deck Systems'*, AIA Course #: K2211L, IIBEC Course #:K2211LD, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 0.1 ICC CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, November 09, 2022.
- 25.11.30. *'Integrated Fire and Smoke Door Systems: Specifying Your Own Safety Net'*, AIA Course #: K2211E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 08, 2022.
- 25.11.31. *'Architectural Louvers Breathe New Life into the Room'*, AIA Course #: K2210J, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 25, 2022.
- 25.11.32. *'Hospital Privacy Curtains'*, AIA Course #: K2210C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 05, 2022.
- 25.11.33. *'Insulated Metal Panels and the Protective Barrier Concept'*, AIA Course #: K2209C, AIBD Course #: K2209C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 13, 2022.
- 25.11.34. *'Healthcare Environments Are Looking Up'*, AIA Course #: K2208Pc AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, August 25, 2022.
- 25.11.35. *'The Ins and Outs of Architectural Glass Design'*, AIA Course #: K2208B, AIBD Course #: K2208B, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, August 18, 2022.
- 25.11.36. *'Digitally Crafting a Box of Trees: Squam Lake House Case Study'*, AIA Course #: K2206H, AIBD Course #: K2206H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 09, 2022.
- 25.11.37. *'Designing High Performance Buildings'*, AIA Course #: K2205K, AIBD Course #: K2205K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 19, 2022.
- 25.11.38. *'The Collision of AGILE and MESSY'*, AIA Course #: K2205N, AIBD Course #: K2205N, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 19, 2022.
- 25.11.39. *'Record Houses Live!'*, AIA Course #: K2204N, GBCI Course #: 0920025981, AIA Provider #: Z217, Credits: 1.5 AIA LU/HSW - 0.1 IACET CEU - 1.5 GBCI-CE, AIA/CES Provider: BNP Media, April 19, 2022.
- 25.11.40. *'Getting to Zero in Affordable Housing: Design Solutions for Delivering High-Performance Multifamily Affordable Housing'*, AIA Course #: K2203E, AIBD Course #: K2203E, AIA Provider #: Z217, Credits: 1 AIA LU/Elective - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, March 10, 2022.
- 25.11.41. *'Durability by Design'*, AIA Course #: K2202, AIA Provider #: Z217, Credits: 1 AIA LU/Elective - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, February 15, 2022.
- 25.11.42. *'Recurring Field Installation Issues with Air Barriers'*, AIA Course #: BE020922, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, February 09, 2022.
- 25.11.43. *'Inside Acoustic Comfort'*, AIA Course #: K2201L, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, January 26, 2022.

- 25.11.44. *'10 KPIs Your Architecture Firm Needs to Track for Maximum Project Profitability'*, AIA Course #: K2201N, AIA Provider #: Z217, Credits: 1 AIA LU/Elective - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, January 25, 2022.
- 25.11.45. *'Designing Durable Building Enclosures'*, AIA Course #: K2201B, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IIBEC CEH, AIA/CES Provider: BNP Media, January 12, 2022.
- 25.11.46. *'Zinc as a Building Envelope'*, AIA Course #: K2112Q, AIA Provider #: Z217, Credits: 1 AIA LU/Elective - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, December 22, 2021.
- 25.11.47. *'Moisture Management Fundamentals'*, AIA Course #: K2112H, AIA Provider #: Z217, Credits: 1 AIA LU/Elective - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, December 14, 2021.
- 25.11.48. *'Creating Inviting Indoor Environments: Owner Perspectives'*, AIA Course #: K2109V, IDCEC Course #: CC-115848-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, December 09, 2021.
- 25.11.49. *'Choosing and Applying the Ideal Resinous Floor'*, AIA Course #: FT120121, IDCEC Course #: CC-115719-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IDCEC CEU, AIA/CES Provider: BNP Media, December 01, 2021.
- 25.11.50. *'Mastering Movement: How Earthquake-Ready Architecture Offers Solutions to Seismic Activity'*, AIA Course #: K2110T, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, December 01, 2021.
- 25.11.51. *'The Fundamentals of Clay Roof Tile'*, AIA Course #: K2112D, AIBD Course #: K2112D, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH - 1 AIBD P CE, AIA/CES Provider: BNP Media, November 30, 2021.
- 25.11.52. *'Architecture & Terracotta Cladding'*, AIA Course #: K2112E, AIBD Course #: K2112E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH - 1 AIBD P CE, AIA/CES Provider: BNP Media, November 30, 2021.
- 25.11.53. *'The Elements & Obstacles of Ceiling Design'*, AIA Course #: K2111JE, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P CE, AIA/CES Provider: BNP Media, November 23, 2021.
- 25.11.54. *'Designing and Building for High-Density'*, AIA Course #: ARI211S, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 18, 2021.
- 25.11.55. *'Retrofitting for Energy Savings and Health Concerns in Today's Climate'*, AIA Course #: BE111721, AIBD Course #: ARI213, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, November 17, 2021.
- 25.11.56. *'Multi-Story Building Systems and Selection Criteria'*, AIA Course #: K2111Q, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 11, 2021.
- 25.11.57. *'Use of Fire-Retardant-Treated Wood in Multi-Family Construction'*, AIA Course #: K2111P, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 11, 2021.
- 25.11.58. *'Designing Affordable, High-Performance Multi-Family Buildings'*, AIA Course #: K2111M, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 10, 2021.

- 25.11.59. *'Redefining Rooftops: Understanding Rooftop Deck Systems'*, AIA Course #: K2111L, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IIBEC CEH, AIA/CES Provider: BNP Media, November 10, 2021.
- 25.11.60. *'From Ceilings, to Walls, to Floors: The Versatility of Seamless Terrazzo'*, AIA Course #: K2111H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, November 04, 2021.
- 25.11.61. *'Expansion Joint Critical Knowledge'*, AIA Course #: K21101H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 27, 2021.
- 25.11.62. *'Activation as Community Engagement'*, AIA Course #: ARI218, AIA Provider #: Z217, Credits: 0.5 AIA LU/HSW, AIA/CES Provider: BNP Media, October 20, 2021.
- 25.11.63. *'Dense City: Homes for Social Capital'*, AIA Course #: ARI217, AIA Provider #: Z217, Credits: 0.5 AIA LU/HSW, AIA/CES Provider: BNP Media, October 20, 2021.
- 25.11.64. *'Architecture and Planning in a Time of FLUX'*, AIA Course #: ARI215, AIBD Course #: ARI215, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 20, 2021.
- 25.11.65. *'How Real-Time Technologies Are Transforming AEC'*, AIA Course #: ARI21EP, AIBD Course #: ARI21EP, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 20, 2021.
- 25.11.66. *'How Precast Builds: Total Precast Concrete Systems'*, AIA Course #: ARI21PC, IACET Course #: ARI21PCD, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 19, 2021.
- 25.11.67. *'Sustainability at the Urban Scale'*, AIA Course #: ARI2111, IACET Course #: ARI2111, AIBD Course #: ARI2111, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 19, 2021.
- 25.11.68. *'Senseable Cities'*, AIA Course #: ARI2113, AIBD Course #: ARI213, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 19, 2021.
- 25.11.69. *'Your Color Vision and Color Trends 2022'*, AIA Course #: ARI21BM, AIBD Course #: ARI21BMD, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 19, 2021.
- 25.11.70. *'Sustainable Facade Solutions: Advantages of GFRC & Various Design Options'*, AIA Course #: 2110Q, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 14, 2021.
- 25.11.71. *'Practical Design Techniques for Net-Zero Homes'*, AIA Course #: 2110P, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 14, 2021.
- 25.11.72. *'Adhesives in Single-Ply Roofing Systems'*, AIA Course #: BE100721, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, October 07, 2021.
- 25.11.73. *'Demystifying the Bizarre Behaviors of Acoustical Consultants'*, AIA Course #: BE100521, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, October 05, 2021.
- 25.11.74. *'Protecting the Core of MCMs'*, AIA Course #: K2108V, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 30, 2021.

- 25.11.75. *'Eliminating Concrete Moisture through Sustainable Design'*, AIA Course #: K2109Y, AIBD Course #: K2109Y, IDCEC Course #: CC-115331-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, September 29, 2021.
- 25.11.76. *'Well-Lit for Well-Being in Hospitals'*, AIA Course #: K2109X, AIBD Course #: K2109X, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 23, 2021.
- 25.11.77. *'Piping Systems - Designing for Human Health and Safety'*, AIA Course #: K2109W, AIBD Course #: K2109W, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 22, 2021.
- 25.11.78. *'Designing High-Performance Healthcare Facilities'*, AIA Course #: K2109V, AIBD Course #: K2109V, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 22, 2021.
- 25.11.79. *'Cellular Glass in High Performance Roofs: Reducing Risk by Design'*, AIA Course #: MC092121, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH - 1 PDH, AIA/CES Provider: BNP Media, September 21, 2021.
- 25.11.80. *'If Your Firm Is So Successful, Where Is All The Money?'*, AIA Course #: K2109V, AIBD Course #: K2109T, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, September 15, 2021.
- 25.11.81. *'The Benefits of Mineral Wool as a Continuous Insulation Solution'*, AIA Course #: BE090921, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, September 09, 2021.
- 25.11.82. *'Green Roofs: Integrating Blue & Gray'*, AIA Course #: BE083121, GBCI Course #: 0920024901, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour - 1 IIBEC CEH, AIA/CES Provider: BNP Media, August 31, 2021.
- 25.11.83. *'Future Forecast: Backup Power Generation's Sustainable Future'*, AIA Course #: 168780, GBCI Course #: 0920024901, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour - 1 PDH, AIA/CES Provider: BNP Media, August 25, 2021.
- 25.11.84. *'Navigating the Real, Imperfect Air Barrier Details'*, AIA Course #: BE081821, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, August 18, 2021.
- 25.11.85. *'Understanding Pre-Painted Metal'*, AIA Course #: K2108M, AIBD Course #: K2108N, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, August 12, 2021.
- 25.11.86. *'How Sustainable Is Wood?'*, AIA Course #: K2108M, AIBD Course #: K2108M, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, August 10, 2021.
- 25.11.87. *'Using the Healing Effects of Nature in Healthcare Design'*, AIA Course #: K2108Q, IDCEC Course #: CC-115370-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, August 10, 2021.
- 25.11.88. *'Addressing Discontinuities of the Rainscreen'*, AIA Course #: BE081021, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, August 10, 2021.
- 25.11.89. *'Windows to the World'*, AIA Course #: K2108H, AIBD Course #: K2108H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, August 03, 2021.

- 25.11.90. *'Fire-Retardant-Treated Wood in Tall Buildings'*, AIA Course #: K2107T, AIBD Course #: K2107T, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 29, 2021.
- 25.11.91. *'Using Building Performance Analysis to Enhance Data Driven Design'*, AIA Course #: K2107R, AIBD Course #: K2107R, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 29, 2021.
- 25.11.92. *'Silicone Coatings: An Alternative to Ceramic Frit for Spandrel Glass'*, AIA Course #: K2107U, GBCI Course #: 0920021917, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 GBCI CE Hour, AIA/CES Provider: BNP Media, July 29, 2021.
- 25.11.93. *'Understanding Low-E Coatings'*, AIA Course #: K2107W, AIBD Course #: K2107W, GBCI Course #: 920024367, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 GBCI CE Hour, AIA/CES Provider: BNP Media, July 28, 2021.
- 25.11.94. *'Defense Against Mold: Antimicrobial Coatings'*, AIA Course #: BE072721, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, July 27, 2021.
- 25.11.95. *'How BIM Helps Firms Achieve Sustainability and Long-Term Success'*, AIA Course #: K2107K, AIBD Course #: K2107K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 27, 2021.
- 25.11.96. *'Three Approaches to Non-Residential Interior Design'*, AIA Course #: K2107E, AIBD Course #: K2107E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 22, 2021.
- 25.11.97. *'Achieving Better Acoustics and Fire Resistance for Multifamily Buildings with Magnesium Oxide (MgO) Floor and Wall Panels'*, AIA Course #: K2107Q, AIBD Course #: K2107Q, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 21, 2021.
- 25.11.98. *'Tricky Transitions in Commercial Roofing'*, AIA Course #: BE072021N, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, July 20, 2021.
- 25.11.99. *'Prioritizing Sustainability and Embodied Carbon Goals'*, AIA Course #: K2107C, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, July 14, 2021.
- 25.11.100. *'Sustainable Solutions with Steel Framing'*, AIA Course #: K2107E, AIBD Course #: BE070821, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, July 08, 2021.
- 25.11.101. *'Concrete Innovations: Sustainability and the Role of Concrete in Net Zero Design'*, AIA Course #: K2106K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 30, 2021.
- 25.11.102. *'Single Skin Metal Siding'*, AIA Course #: K2106F, AIBD Course #: K2106F, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 22, 2021.
- 25.11.103. *'Your Walls are Your Canvas'*, AIA Course #: K2106R, AIBD Course #: K2106R, IDCEC Course #: CC-114681-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU, AIA/CES Provider: BNP Media, June 17, 2021.
- 25.11.104. *'Specification Strategies to Eliminate Concrete Moisture'*, AIA Course #: K2106L, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 15, 2021.

- 25.11.105. *'Key Approaches to Commercial Bathroom and Shower Design'*, AIA Course #: K2106G, IDCEC Course #: CC-114680-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, June 10, 2021.
- 25.11.106. *'Integrated Multifamily Design Concepts'*, AIA Course #: K2106E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 09, 2021.
- 25.11.107. *'Commercial Rooftop Solar Design Explained'*, AIA Course #: BE2020D, GBCI Course #: 0920022688, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour - 1 IIBEC CEH, AIA Course Provider: BNP Media, June 04, 2021.
- 25.11.108. *'Mitigating Glare and Solar Heat Gain with Exterior Shading Systems'*, AIA Course #: K2010D, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, June 04, 2021.
- 25.11.109. *'Reflected Solar Energy of Glazing Systems in Buildings'*, AIA Course #: K2009P, AIA Provider #: Z217, Quiz Score: 100%, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, June 04, 2021.
- 25.11.110. *'Zero Energy Houses'*, AIA Course #: K2107E, AIBD Course #: K2106A, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, June 03, 2021.
- 25.11.111. *'Extending the Life of the Roofing Assembly'*, AIA Course #: BE060321, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, June 03, 2021.
- 25.11.112. *'Climate, Carbon, and Human Health'*, AIA Course #: K1906D, AIA Provider #: Z217, Quiz Score: 100%, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 GBCI CE Hour, AIA Course Provider: BNP Media, June 03, 2021.
- 25.11.113. *'Sustainability and Green Design'*, AIA Course #: K1905N, AIA Provider #: Z217, Quiz Score: 100%, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 GBCI CE Hour, AIA Course Provider: BNP Media, June 03, 2021.
- 25.11.114. *'Acoustic Performance in Buildings: Meeting the Standards'*, AIA Course #: K2106B, AIBD Course #: K2106B, GBCI Course #: 0920024749, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 GBCI CE Hour, AIA/CES Provider: BNP Media, June 02, 2021.
- 25.11.115. *'Innovations for Education Design Using Opening Glass Walls'*, AIA Course #: K2105X, AIBD Course #: K2105X, IDCEC Course #: CC-114663-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, May 26, 2021.
- 25.11.116. *'Acoustic Ceilings for High Performing Schools'*, AIA Course #: K2105W, IDCEC Course #: CC-114664-1000, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, May 26, 2021.
- 25.11.117. *'Back to School: Demystifying the Use of Fire-Retardant-Treated Wood in Educational Facilities'*, AIA Course #: K2105V, AIBD Course #: K2105V, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 25, 2021.
- 25.11.118. *'Learning with Light'*, AIA Course #: K2105T, AIBD Course #: K2105T, IDCEC Course #: CEU-114659, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IDCEC CEU/HSW, AIA/CES Provider: BNP Media, May 25, 2021.
- 25.11.119. *'Why a Liquid-Applied Membrane May Be Your Next Roof'*, AIA Course #: BE052021, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, May 20, 2021.

- 25.11.120. *'Fire-Rated Glass Doors 101'*, AIA Course #: K2105E, AIBD Course #: K2105E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 19, 2021.
- 25.11.121. *'Achieving a High-Performance Air Barrier System'*, AIA Course #: BE051221, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, May 12, 2021.
- 25.11.122. *'Sustainable Design Through Daylighting'*, AIA Course #: K2105H, AIBD Course #: K2105H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 06, 2021.
- 25.11.123. *'Solar Facades: Understanding Building Integrated Photovoltaics and Pressure-Equalized Rainscreens'*, AIA Course #: 2012CD, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, May 03, 2021.
- 25.11.124. *'Passive House'*, AIA Course #: K2004A, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, May 02, 2021.
- 25.11.125. *'ADA Signage: Mastering the Compliance Basics'*, AIA Course #: K2104S, AIA Course #: K2104S, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, April 27, 2021.
- 25.11.126. *'Proactively Address Moisture in Roof Assemblies'*, AIA Course #: K2104E, AIA Course #: K2104E, IIBEC Course #: K2104E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 IIBEC CEH, AIA/CES Provider: BNP Media, April 08, 2021.
- 25.11.127. *'Building Acoustics: Making Architects Visions a Reality'*, AIA Course #: WC22521, IIBEC Course #: WC22521, AIA Course #: K2104E, IIBEC Course #: K2104E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, February 25, 2021.
- 25.11.128. *'Stone Wool Acoustic Ceilings for Health and Well-Being'*, AIA Course #: K2102C, AIBD Course #: K2102CD, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, February 25, 2021.
- 25.11.129. *'Acoustic Design for Commercial Applications'*, AIA Course #: K2102E, AIBD Course #: K2102E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, February 10, 2021.
- 25.11.130. *'Fire Concerns and Code Complexities in Waterproof Deck Coatings'*, AIA Course #: BE2421, IACET Course #: BE2421, IIBEC Course #: BE12721, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, February 04, 2021.
- 25.11.131. *'Integral Sheathing Solutions for Multi-Family Projects'*, AIA Course #: BE12721, IIBEC Course #: BE12721, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA/CES Provider: BNP Media, January 27, 2021.
- 25.11.132. *'Fire-Rated Expansion Joints: Employing Best Practices + Avoiding Field Problems'*, AIA Course #: K2101H, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, January 27, 2021.
- 25.11.133. *'Three Hot Topics in Commercial Bathroom and Shower Design'*, AIA Course #: K2102E, AIBD Course #: K2102J, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, December 15, 2020.

- 25.11.134. *'Retractable Roofs: A Sustainable Solution'*, AIA Course #: K2012E, GBCI Course #: 0920023042, IIBEC Course #: K2012ED, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 GBCI CE Hour - 1 AIBD P-CE - 1 IIBEC CEH, AIA/CES Provider: BNP Media, December 15, 2020.
- 25.11.135. *'How to Select and Specify the Right Insulated Metal Panel for Your Project'*, AIA Course #: BE112420, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA Course Provider: BNP Media, November 24, 2020.
- 25.11.136. *'Ceiling Systems for High Performing Healthcare Facilities'*, AIA Course #: K2011G, EDAC Course #: BNP20-HPHF, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE - 1 EDAC CEH, AIA Course Provider: BNP Media, November 19, 2020.
- 25.11.137. *'Sustainable Facade Solutions: GFRC for Endless Possibilities'*, AIA Course #: K2011K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, November 17, 2020.
- 25.11.138. *'Polyiso: The New Age of Air and Water Resistive Barriers'*, AIA Course #: BE111220, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA Course Provider: BNP Media, November 12, 2020.
- 25.11.139. *'Cold-Formed Steel Framing in Mid-Rise Construction'*, AIA Course #: BE111020, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA Course Provider: BNP Media, November 10, 2020.
- 25.11.140. *'Wind Resistance of Single-Ply Roof Systems over Metal Panel Roofs'*, AIA Course #: BE110520, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 IIBEC CEH, AIA Course Provider: BNP Media, November 05, 2020.
- 25.11.141. *'Cities and Culture - Fabrizio Barozzi'*, AIA Course #: ARI2020D, AIA Provider #: Z217, Credits: 0.5 AIA LU/HSW, AIA/CES Provider: BNP Media, October 28, 2020.
- 25.11.142. *'Panel: Equity, Access and Inclusion in Public Space'*, AIA Course #: ARI2020F, AIA Provider #: Z217, Credits: 0.5 AIA LU/HSW, AIA/CES Provider: BNP Media, October 28, 2020.
- 25.11.143. *'Opening Keynote: HUMANITY X NATURE'* AIA Course #: ARI2020NO, IACET Course #: ARI2020NO, AIBD Course #: ARI2020NO, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA/CES Provider: BNP Media, October 28, 2020.
- 25.11.144. *'Closing Keynote: Frank Gehry Partner, Gehry Partners'*, AIA Course #: ARI2020FG, AIA Provider #: Z217, Credits: 1 AIA LU/HSW, AIA Course Provider: BNP Media, October 28, 2020.
- 25.11.145. *'Fire-Retardant-Treated Wood and the International Building Code'*, AIA Course #: ARI2020HW, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU, AIA Course Provider: BNP Media, October 28, 2020.
- 25.11.146. *'Closing Keynote: A Conversation with Sir David Adjaye'*, AIA Course #: ARI2020K, AIA Provider #: Z217, Credits: 1 AIA LU/HSW, AIA/CES Provider: BNP Media, October 27, 2020.
- 25.11.147. *'Designers Redesign Robotics'*, AIA Course #: ARI2020C, AIA Provider #: Z217, Credits: 0.5 AIA LU/Elective, AIA Course Provider: BNP Media, October 27, 2020.
- 25.11.148. *'PANEL: Seeking Equity and Architectural Education'*, AIA Course #: ARI2020E, AIA Provider #: Z217, Credits: 1 AIA LU/HSW, AIA Course Provider: BNP Media, October 27, 2020.

- 25.11.149. *'Cities and Culture'*, AIA Course #: ARI2020B, AIA Provider #: Z217, Credits: 0.5 AIA LU/HSW, AIA Course Provider: BNP Media, October 27, 2020.
- 25.11.150. *'Opening Keynote: Architecture and Urbanism at Every Scale'*, AIA Course #: ARI2020KN, AIBD Course #: ARI2020KN, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, October 27, 2020.
- 25.11.151. *'Designing with Fire Rated Glass'*, AIA Course #: K1909B, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, September 18, 2020.
- 25.11.152. *'Fire-Rated Glass & Framing Solutions for Healthcare Facilities'*, AIA Course #: K2005G, AIA Provider #: Z217, Credits: 1 AIA LU/HSW - 0.1 IACET CEU - 1 AIBD P-CE, AIA Course Provider: BNP Media, May 19, 2020.
- 25.11.153. *'Adapting to New Environs'*, AIA Course #: K1504A, AIA Provider #: Z217, Quiz Score: 80%, Credits: 1 AIA LU/HSW, AIA Course Provider: BNP Media, September 16, 2019.

25.12. Professional Courses:

Passive House: American Institute of Architects (AIA) Continuing Education Provider)

- 25.12.1. *'Achieving the Passive House Standard for Existing Buildings'*, Learning Hours: PHC: 15 PHI: 20 - AIBC & BC Housing: 15, Passive House Canada, February 7-17, 2022.
- 25.12.2. *'Built in Canada: Lessons Learned from PH Projects-BC'*, Credits: PHI: 2 - BC Housing: 1.5 - AIBC: 1.75, Passive House Canada, January 28, 2022.
- 25.12.3. *'PHPP-IP | COURSE III - DHW & Heating/Cooling'*, Course #: NYPH_103_SP21, ID #: K227_2021_US, Credits: 10 PHI Credit Point (CP), New York Passive House, Inc (NYPH)- Passive House Institute (PHI) Continuing Education Provider, July 13, 2021.
- 25.12.4. *'PHPP-IP | COURSE II - Windows & Ventilation'*, Course #: NYPH_102_SP21, ID #: K227_2021_US, Credits: 10 PHI Credit Point (CP), New York Passive House, Inc (NYPH)- Passive House Institute (PHI) Continuing Education Provider, May 18, 2021.
- 25.12.5. *'PHPP-IP | COURSE I - Verification & Assemblies'*, Course #: NYPH_101_SP21, ID #: K058_2021_US, Credits: 10 PHI Credit Point (CP), New York Passive House, Inc (NYPH)- Passive House Institute (PHI) Continuing Education Provider, May 04, 2021.
- 25.12.6. *'Introduction to Passive House'*, Credits: 1 AIA LU/HSW, Course Provider #: 502111363, North American Passive House Network (NPAHN), New York, USA, January 16, 2022.
- 25.12.7. *'Passive House Primer'*, Course #: BEEx073, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEEx), April 29, 2021.
- 25.12.8. *'Architects Focus | Passive House Details Applied'*, Program #: 012408, Credits: 1 AIA LU/HSW, Course Provider #: A105, AIA New York, USA, July 30, 2020.
- 25.12.9. *'Architects Focus | High-Rise Affordable Housing'*, Program #: 012370, Credits: 1 AIA LU/HSW, Course Provider #: A105, AIA New York, USA, July 16, 2020.
- 25.12.10. *'Architects Focus | Passive House + Modular for Affordability'*, Program #: 012354, Credits: 1 AIA LU/HSW, Course Provider #: A105, AIA New York, USA, July 02, 2020.

25.13. CE Academy & Green CE & infor_Spec: American Institute of Architects (AIA) Continuing Education Provider)

- 25.13.1. *'A Safe Bet - Bullet, Blast, and Forced Entry Resistant Products'*, AIA Course #: IAR13G, AIA Provider #: - 40107915, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Armortex-CE Academy, August 31, 2020.
- 25.13.2. *'Acoustic Doors and Green Design'*, AIA Course #: AMB013-01, GBCI Course ID: 0920022489, AIA Provider #: - J834, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Ambico Limited-CE Academy, November 10, 2020.
- 25.13.3. *'Acoustical Finishes for Open-Plan Design'*, AIA Course #: J39404, GBCI Course ID: GBCI Course ID: 920018782, AIA Provider #: - J394, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: International Cellulose Corporation-CE Academy, November 10, 2020.
- 25.13.4. *'Autoclaved Aerated Concrete: Old Technology, New Applications'*, AIA Course #: IAE03A, AIA Provider #: - K066, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Ron Blank & Associates Inc.-CE Academy, October 13, 2020.
- 25.13.5. *'Concrete Tile Roofing: The World's Most Sustainable and Energy Efficient Roof System'*, AIA Course #: IEC07C, GBCI Course ID: 920019085, AIA Provider #: - 404108298, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Eagle Roofing-CE Academy, December 14, 2020.
- 25.13.6. *'Don't Lose Your R Over the Z'*, AIA Course #: DontLoseR, GBCI Course ID: 0920018965, AIA Provider #: - K019, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: DuPont Building Innovations-CE Academy, November 11, 2020.
- 25.13.7. *'Enduring Beauty: High Performing Open Jointed Cladding Systems'*, AIA Course #: IAZ07, AIA Provider #: - J649, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: AZEK Building Products-CE Academy, October 28, 2020.
- 25.13.8. *'Florida Building Code, 6th Edition (2017) Advanced Class for Fenestration'*, AIA Course #: 2017FBCADV, AIA Provider #: - H717, Credits: 2 AIA HSW/LU CE Hour(s) - 2 FABC CE Hour, Course Provider: PGT Custom Windows & Doors-CE Academy, October 30, 2020.
- 25.13.9. *'Improving the Performance of Finished Concrete Flooring'*, AIA Course #: PRO016, AIA Provider #: - J388, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Prosoco-CE Academy, November 16, 2020.
- 25.13.10. *'Insulated Roof Decks'*, AIA Course #: AWIPAIACES02, AIA Provider #: - 40107640, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: All Weather Insulated Panels-CE Academy, November 09, 2020.
- 25.13.11. *'Kitchen Cabinet Construction Methods, Finishes and Applications'*, AIA Course #: WHPKC092019, AIA Provider #: - 40107639, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Wolf Home Products-CE Academy, July, 26, 2021.
- 25.13.12. *'Managing Condensation, Water Intrusion, and Energy in the Real World'*, AIA Course #: PRO014-20, AIA Provider #: - J388, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Prosoco-CE Academy, November 11, 2020.
- 25.13.13. *'Materials, Technology, and Innovative Trends in Casework Systems'*, AIA Course #: ICAS06A, GBCI Course ID: 920021431, AIA Provider #: - J518, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Case Systems-CE Academy, October 14, 2020.

- 25.13.14. *'Metal Roofs - Wind Uplift(ing) or NOT?'*, AIA Course #: MRIL2081, AIA Provider #: - 40107851, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: S-5!-CE Academy, October 13, 2020.
- 25.13.15. *'Noise Control Solutions for Multi-Family Residential Applications'*, AIA Course #: RA2017002, GBCI Course ID: 920021427, AIA Provider #: - 404108225, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Regupol America LLC-CE Academy, August 31, 2020.
- 25.13.16. *'Privacy Partitions in Today's Commercial Restrooms'*, AIA Course #: ISP10Q, AIA Provider #: - 40107701, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Scranton Products-CE Academy, November 12, 2020.
- 25.13.17. *'Protective Treatments for Masonry and Concrete'*, AIA Course #: PRO018-20, AIA Provider #: - J388, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Prosoco-CE Academy, December 16, 2020.
- 25.13.18. *'Retrofit Anchoring of Masonry and Stone Facades'*, AIA Course #: PRO034, AIA Provider #: - J388, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Prosoco-CE Academy, November 09, 2020.
- 25.13.19. *'Safe and Responsible Design Choices for your Performance Weight Room Floor'*, AIA Course #: RA2020002, AIA Provider #: - 404108225, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Regupol America LLC-CE Academy, November 09, 2020.
- 25.13.20. *'Security Pass Thru Combinations'*, AIA Course #: WQS00A, AIA Provider #: - K066, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: Ron Blank & Associates Inc.-CE Academy, October 15, 2020.
- 25.13.21. *'Sound Control in Construction'*, AIA Course #: soundatten21, GBCI Course ID: 920009099, AIA Provider #: - J582, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals, Course Provider: Homasote-CE Academy, October 27, 2020.
- 25.13.22. *'The Design Advantages of Composite Roofing Solutions'*, AIA Course #: DAV07A, AIA Provider #: - K316, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: DaVinci Roofscapes-CE Academy, December 29, 2020.
- 25.13.23. *'The Wave of the Future: Sustainable Hand Dryer Solutions'*, AIA Course #: IWD10D, GBCI Course ID: 920019447, AIA Provider #: 40107928, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: World Dryer-CE Academy, November 17, 2020.
- 25.13.24. *'Daylighting by Design'*, AIA Course #: WMA10D, GBCI Course ID: 0920017566, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Ron Blank & Associates, Inc.-GreenCE, December 02, 2020. ([Link](#))
- 25.13.25. *'Expansive Openings for Energy Efficient Settings'*, AIA Course #: WPA08A, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Ron Blank & Associates, Inc.-GreenCE, October 08, 2020. ([Link](#))
- 25.13.26. *'Get In On The Ground Floor: Modern, Sustainable Healthcare Flooring'*, AIA Course #: WVE09A, GBCI Course ID: 0920021803, IDCEC Course #: 111335, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) - 1 GBCI General Hour(s) for LEED Professionals - 1 IDCEC HSW CEU, Course Provider: Ron Blank & Associates, Inc.-GreenCE, September 24, 2020. ([Link](#))
- 25.13.27. *'Keep Glass Looking Beautiful and Reduce Maintenance Costs with a Protective Coating'*, AIA Course #: WDF09C, GBCI Course ID: 0920021482, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Ron Blank & Associates, Inc.-GreenCE, August 27, 2020. ([Link](#))

- 25.13.28. *'Protect, Enhance and Maintain Glass with a High-Performance Glass Coating'*, AIA Course #: WDF09D, GBCI Course ID: 0920022787, AIA Provider NSBRC#: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Ron Blank & Associates, Inc.-GreenCE, May 05, 2021. ([Link](#))
- 25.13.29. *'The Perfect Pair: Sustainable HDPE + Copper Restroom Touch-Points'*, AIA Course #: WSP10T, GBCI Course ID: 0920024147, IDCEC Course #: CEU-114731, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals - 1 IDCEC HSW CEU, Course Provider: Ron Blank & Associates, Inc.-GreenCE, March 03, 2022. ([Link](#))
- 25.13.30. *'Where Sustainability Meets Innovation'*, AIA Course #: WMA10F, GBCI Course ID: 0920024222, AIA Provider #: K066, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Ron Blank & Associates, Inc.-GreenCE, February 22, 2022.
- 25.13.31. *'Architectural Vertical Opening Solutions - Plus!'*, AIA Course #: IRD08C, GBCI Course ID: 0920019782, AIA Provider #: - 40107658, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: Renlita Custom Opening Solutions-infoSpec, June 09, 2021.
- 25.13.32. *'How To Do Whole-Building LCA'*, AIA Course #: WAS00A, AIA Provider #: - K167, Credits: 1 AIA HSW/LU CE Hour(s), Course Provider: GreenCE, Inc-infoSpec, November 13, 2013.
- 25.13.33. *'Protecting Architectural Glazing with Hydrophobic Coatings'*, AIA Course #: IDF09A, GBCI Course ID: 0920004141, AIA Provider #: - J687, Credits: 1 AIA HSW/LU CE Hour(s) -1 GBCI General Hour(s) for LEED Professionals, Course Provider: InfoSpec, Inc., March 26, 2014.

25.14. AIA/BEEx/ZEBx/Mesh: American Institute of Architects (AIA) Continuing Education Provider)

- *'Induction Cooking: The All-Electric Kitchen of Today and Zero Net Carbon Design for Food Service'*, AIA Course #: AIACA119, AIA Provider #: A031, Credits: 1 AIA LU | HSW, Course Provider: AIA California, May 12, 2022. ([Link](#))
- *'The Art and Value of Collaboration'*, AIA Course #: AIACA121, AIA Provider #: A031, Credits: 1 AIA LU | HSW, Course Provider: AIA California, April 19, 2022. ([Link](#))
- *'A Designing for Zero Net Carbon - Three Case Studies of All-Electric Buildings'*, AIA Course #: AIACA111, AIA Provider #: A031, Credits: 1.5 AIA LU | HSW, Course Provider: AIA California, April 13, 2022. ([Link](#))
- *'A Climate Action Standard for ADUs (AIACA116)'*, AIA Course #: AIACA116, AIA Provider #: A031, Credits: 1.5 AIA LU | HSW, Course Provider: AIA California, April 06, 2022. ([Link](#))
- *'Understanding Carbon Analysis for Existing Building Renovation'*, AIA Course #: AIACA105, AIA Provider #: A031, Credits: 1 AIA LU | HSW, Course Provider: AIA California, February 09, 2022. ([Link](#))
- *'Design for Economy: Plan and Build Multi-Family Passive House'*, AIA Course #: AIACA59, AIA Provider #: A031, Credits: 1.5 AIA LU | HSW, Course Provider: AIA California, March 10, 2021. ([Link](#))
- *'Visual Delight in Architecture: Views, Health, Human Performance, Design and More'*, AIA Course #: AIACA110, AIA Provider #: A031, Credits: 1.5 AIA LU | HSW, Course Provider: AIA California, March 09, 2022. ([Link](#))
- *'Design for Integration: AIA 2030 Commitment Integration and Practice'*, AIA Course #: AIACA56, AIA Provider #: A031, AIA Credits: 1 LU | HSW, Course Provider: AIA California, January 28, 2021. ([Link](#))

- '*Concrete Innovations*', AIA Course #: AIACA68, AIA Provider #: A031, AIA Credits: 1 LU | HSW, Course Provider: AIA California, June 02, 2021. ([Link](#))
- '*2030 Challenge: Demystifying Conceptual Energy Analysis for Architects*', AIA Course #: AIACA77, AIA Provider #: A031, AIA Credits: 1 LU | HSW, Course Provider: AIA California, June 24, 2021. ([Link](#))
- '*Make the Grade: Envelope & the 2019 Energy Code*', AIA Course #: AIACA71, AIA Provider #: A031, AIA Credits: 1.5 LU | HSW, Course Provider: AIA California, May 20, 2021. ([Link](#))
- '*Historic Preservation for Embodied Carbon Conservation*', AIA Course #: AIACA74, AIA Provider #: A031, AIA Credits: 1 LU | HSW, Course Provider: AIA California, May 26, 2021. ([Link](#))
- '*Visual Delight in Architecture: Views, Health, Human Performance, Design and More*', AIA Course #: AIACA110, AIA Provider #: A031, AIA Credits: 1.5 LU | HSW, Course Provider: AIA California, March 09, 2022. ([Link](#))
- '*RHH: Downtown Richmond Hill*', AIA Course #: 121521-RHH1, Session Code: 2, AIA Provider: AIA Queens Chapter, Certificate #: 04132202, Credits: 1 AIA LU | HSW, Course Provider: AIA Queens, April 13, 2022.
- '*RHH: Historic Churches of Richmond Hill*', AIA Course #: 121521-RHH2, Session Code: 2, AIA Provider: AIA Queens Chapter, Certificate #: 04062202, Credits: 1 AIA LU | HSW, Course Provider: AIA Queens, April 06, 2022.
- '*RHH: Historic Houses of Richmond Hill*', AIA Course #: 121521-RHH3, Session Code: 2, AIA Provider: AIA Queens Chapter, Certificate #: 03302202, Credits: 1 AIA LU | HSW, Course Provider: AIA Queens, March 30, 2022.
- '*Tell Your Story: Media Workshop (Session A)*', AIA Course Program #: 013267, AIA Provider #: A105, AIA CES Credits: 1 LU, Course Provider: AIA New York, April 27, 2022.
- '*Fight or Flight? Stemming the Tide*', AIA Course Program #: 012933, AIA Provider #: A105, AIA CES Credits: 2.5 LU | HSW, Course Provider: AIA New York, June 04, 2021.
- '*Skinny House: A Memoir of Family*', AIA Course Program #: 012580, AIA Provider #: A105, AIA CES Credits: 1.5 LU | HSW, Course Provider: AIA New York, December 10, 2020.
- '*Post-COVID Cities: Reinventing World Cities*', AIA Course Program #: 012825, AIA Provider #: A105, AIA CES Credits: 1.5 LU | HSW, Course Provider: AIA New York, June 10, 2021.
- '*Post-COVID Cities: Framework for Opportunity*', AIA Course Program #: 012995, AIA Provider #: A105, AIA CES Credits: 1.5 LU | HSW, Course Provider: AIA New York, September 08, 2021.
- '*How Low Can We Go? Historic Preservation and Carbon Reduction: Applied Trades*', AIA Course Program #: 012998, AIA Provider #: A105, AIA CES Credits: 1.5 LU | HSW, Course Provider: AIA New York, September 21, 2021.
- '*Designing with Modern EIFS*', AIA Course #: STO2020101EIF, Credits: 1 AIA LU | HSW, Course Provider: Sto Institute, March 29, 2022.
- '*COTE Green Champion Summit*', AIA Course #: 2021.10.11, AIA Provider #: A215, AIA Credits: 2 LU | HSW, Course Provider: AIA Oregon, October 11, 2021.
- '*Thom Mayne: Person Place Thing with Randy Cohen*', AIA Course Program #: 012921, AIA Provider #: A105, AIA CES Credits: 1 LU, Course Provider: AIA New York, June 17, 2021.
- '*Safe and Equitable Streets: Age, Ability, and Inclusion*', AIA Course Program #: 012927, AIA Provider #: A105, AIA CES Credits: 1.5 LU | 1.5 HSW, Course Provider: AIA New York, June 10, 2021.

- '*Housing for Veterans*', AIA Course Program #: 012802, AIA Provider #: A105, AIA CES Credits: 1.5 LU | 1.5 HSW, Course Provider: AIA New York, May 10, 2021.
- '*Speed Presentations Edition 12*', AIA Course Program #: 012909, AIA Provider #: A105, AIA CES Credits: 1.5 LU, Course Provider: AIA New York, May 26, 2021.
- '*Democratizing Preservation: How the Providence Preservation Society is Recalibrating for the 21st Century*', AIA CES Course #: PPS1-1, AIA Provider #: A097, AIA CES Credits: 1 LU, Course Provider: AIA Rhode Island, May 25, 2022.
- '*Senior Care Bathing Solutions*', AIA Course Program #: SCAIA002, AIA CES Credits: 1.5 LU, Course Provider: AIA, May 19, 2022.
- '*Seamless Floor and Wall Systems*', AIA Course #: SW 13 Basics, AIA Provider #: K065, Credits: 1 AIA LU | HSW, Course Provider: The Sherwin-Williams Company, March 23, 2022.
- '*SMT: Making the Invisible Visible*', AIA Course Program #: 2021AIACS01, AIA Provider #: 100100113, AIA CES Credits: 1 AIA LU | HSW, Course Provider: AIA New York, May 11, 2021.
- '*The Future of Cultural Centers: Pieterel Thijssen, LocHal Library*', AIA Course Program #: 012810, AIA Provider #: A105, AIA CES Credits: 1 LU, Course Provider: AIA New York, February 10, 2021.
- '*SMT: Making the Invisible Visible*', AIA Course #: 2021AIACS01, AIA Provider #: 100100113, Credits: 1 AIA LU | HSW, Course Provider: AIA California, February 10, 2021. ([Link](#))
- '*History-City-Architecture-People, Creating Living Environments*', AIA CES Credits: 2.0 HSW, Course Provider: AIA Japan, May 27, 2022.
- '*Your Home & Your Health: Understanding Indoor Air Quality (IAQ) at Home*', AIA CES Credits: 2.0 LU/HSW, Course Provider: AIA Japan, April 23, 2022.
- '*The Future of Carbon Neutral Design*', AIA Credit: 2.0 LU/HSW, AIA Japan, October 21, 2020.
- '*Where Sustainability Meets Innovation*', AIA Provider #: 404108628, AIA CES Credits: 1 LU | HSW | GBC, Course Provider: MASA Products Company, June 20, 2022.
- '*Scan to BIM Utilizing GeoSLAM*', AIA Course #: W20210513, AIA Provider #: H284, Credits: 1 AIA LU, Course Provider: MicrosolResources, May 13, 2021.
- '*What's New with Revit 2022?*', AIA Course #: W20200420, AIA Provider #: H284, Credits: 1 AIA LU, Course Provider: MicrosolResources, April 20, 2021.
- '*MINERAL WOOL INSULATION: Understanding Stone Wool Insulation in Interior and Exterior Commercial Applications*', AIA Provider PROG. NO. ROX GEN2019, GBCI Course Provider #: 090007014, Credits: 1 AIA/CES LU/HSW, Course Provider: Rockwool, July 09, 2020.
- '*Heatpumpification of Buildings: Lessons Learned & Practical Considerations*', Credits: 1.5 GBCI CE Hour, Course Provider: Illinois Green Alliance, May 24, 2022.
- '*Decarbonizing Enterprise Real Estate with Large-Scale Renewables*', Credits: 1 GBCI CE Hour, Course Provider: Illinois Green Alliance, April 26, 2022.
- '*Credential Soup: ESG Reporting*', Credits: 1 GBCI CE Hour, Course Provider: Illinois Green Alliance, April 20, 2022.
- '*The Power of Peer Networks: Collaborating for Change*', Credits: 1 GBCI CE Hour, Course Provider: Illinois Green Alliance, April 13, 2022.

- *'Building Decarb Tech Series: Reducing Embodied Carbon'*, Credits: 1.5 GBCI CE Hour, Course Provider: Illinois Green Alliance, March 02, 2022.
- *'Energy Codes - The Key to Accelerating a Net Zero Future'*, Credits: 2 GBCI CE Hour, Course Provider: Illinois Green Alliance, February 18, 2022.
- *'How to Prioritize Sustainability Projects for an All-Electric Home'*, Credits: 1.5 GBCI CE Hour, Course Provider: Illinois Green Alliance, August 25, 2021.
- *'The Changing Landscape of Design Post Covid 19'*, AIA Course #: K001-WK720716, Credits: 1 AIA/CES LU - 1 PHS, Course Provider: XL Catlin Design Professional Liability Education Program, August 17, 2021.
- *'Thermally-Broken Shelf Angles'*, AIA Program #: OOUOA1, Credits: 1 AIA/CES LU, Course Provider: FERO Corporation, November 04, 2021. ([Link](#))
- *'Architectural Koyaanisqatsi: 10-yr, 100-yr, 1000-yr Buildings'*, Course #: AK1000, Credits: 1 AIA/CES LU/HSW, ABBA Provider #: G354, Course Provider: Air Barrier Association of America (ABAA), December 16, 2021.
- *'Avoiding Building Enclosure Failures'*, Course #: CONF2019-11, Credits: 1 AIA/CES LU/HSW, ABBA Provider #: G354, Course Provider: Air Barrier Association of America (ABAA), October 28, 2021.
- *'Introduction to Existing Building Retrofits'*, Course #: PRO036, Credits: 1 AIA/CES LU/HSW, ABBA Provider #: G354, Course Provider: Air Barrier Association of America (ABAA), October 21, 2021.
- *'Alchemy of Architecture'*, Course #: Alchemy2021, Credits: 1 AIA/CES LU/HSW, ABBA Provider #: G354, Course Provider: Air Barrier Association of America (ABAA), October 14, 2021.
- *'What is the Certified Air Barrier Specialist (CABS) Program?'*, Course Provider: Certified Air Barrier Specialist (CABS), December 14, 2021.
- *'Window Retrofits for Occupant Comfort and Energy Efficiency'*, AIA Course #: AIA4041081582, Session 17, AIA Provider #: 404108158, AIA Credits: 1 LU | HSW, Course Provider: Indow Carmen Douglass, May 27, 2021.
- *'Energy Code Trades-Offs and RESCheck Takesoffs'*, AIA Course #: MEEA 21-6, AIA Credits: 2 LU - 1 BPI - 0.2 ICC, Course Provider: Ameren Missouri, April 28, 2021.
- *'AIA - Comfort by Design'*, Credit: 1.0 IACET, Mitsubishi Electric Cooling & Heating, November 12, 2020.
- *'Meeting Residential Energy Requirements with Wood-Frame Construction'*, AIA Course #: BCD600, ICC PP # Course #: 1020, Credit: 1.0 AIA LU/HSW - 0.1 ICC, American Wood Council.
- *'Daylight Hour Event: Redesigning Daylight'*, Course #: BEEEx204, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEEEx), June 21, 2022.
- *'High Rise/Low Carbon: Financing Deep Retrofits'*, Course #: BEEEx200, Credits: 1.5 AIA LU, Course Provider #: 50111173, Building Energy Exchange (BEEEx), May 04, 2022.
- *'Passive House Module: Insulation & Thermal Bridging'*, Course #: BEEEx186, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEEEx), April 14, 2022.
- *'Passive House Module: Airtightness'*, Course #: BEEEx185, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEEEx), April 13, 2022.
- *'Passive House Module: Ventilation'*, Course #: BEEEx188, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEEEx), April 13, 2022.

- '*High Rise / Low Carbon Series Launch*', Course #: BEE192, Credits: 1.5 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEE), February 03, 2022.
- '*Climate Mobilization Act Primer*', Course #: BEE174, Credits: 1 AIA LU/HSW, Course Provider #: 50111173, Building Energy Exchange (BEE), November 18, 2021.
- '*Big Buildings, Big Impacts*', Course #: CMA1, Credits: 1 AIA CEU, Course #: 180, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), October 06, 2021.
- '*Climate Mobilization Act Primer*', Course #: CMA1, Credits: 1 AIA CEU, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), July 22, 2021.
- '*Anatomy of an Energy Efficient Building: Envelope Showcase Launch*', Course #: BEE170, Credits: 1.5 AIA LUs | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), July 29, 2021.
- '*Contracts, Climate, and Compliance Workshop*', Course #: BEE176, Credits: 1 AIA LUs | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), September 14, 2021.
- '*Climate Mobilization Act Series: Act Series: All-Electric NYC Buildings*', Course #: BEE196, Credits: 1.5 AIA LUs | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), April 05, 2022.
- '*Climate Mobilization Act Series: Integrative Environmental Justice*', Course #: BEE173, Credits: 1.5 AIA LUs | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), September 22, 2021.
- '*Climate Mobilization Act Series: What About Affordable Housing?*', Course #: BEE183, Credits: 1.5 AIA LUs | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), November 03, 2021.
- '*Performance-Based Ventilation for Health, Efficiency, & Compliance*', Course #: BEE184, Credits: 1 AIA LU | HSW, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), December 09, 2021.
- '*Beyond Zero Series: Practicing the 2030 Challenge*', Course #: BEE189, Credits: 1 AIA LU | HSW, Course #: 212.349.3900, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), December 15, 2021.
- '*Climate Mobilization Act Series: Applying for LL97 Adjustments*', Course #: BEE163, Credits: 1.5 AIA LUs, Course Provider #: 50111173, Course Provider: Building Energy Exchange (BE EX), December 15, 2021.
- '*University of Rhode Island Fascitelli Center for Advanced Engineering Commercial Energy Code Training*', AIA Course #: RICodeC 104-21, Credits: 1 AIA LU | HSW, Clea Result, National Grid, July 28, 2021.
- '*Commercial ZEB and RI Stretch Code*', AIA Course #: RICodeC 103-21RI, Credits: 1 AIA LU | HSW, Clea Result, National Grid, August 04, 2021.
- '*Commercial Zero Energy Buildings and RI Stretch Code*', AIA Course #: RICodeC 103-21, Credits: 1 AIA LU | HSW, Clea Result, National Grid, December 01, 2021.
- '*Brown Engineering Research Center Tour*', AIA Course #: RICodeC 104-21, Credits: 1 AIA LU | HSW, Clea Result, National Grid, October 06, 2021.
- '*Ventilated Facades, an Innovative Rainscreen Building Approach*', AIA Course #: ECH-VF-1001, Credits: 1 AIA LU/HSW, Course Provider: Oldcastle Architectural, May 05, 2021.
- '*Making Glass Come to Life: The Principles of Glass Selection*', AIA Course #: GRD 12, Credits: 1 AIA HSW, Course Provider: Guardian Glass, LLC, May 26, 2021.

- *'The Connected Campus'*, AIA Course #: CAMPUS, CC-113173-1083, Credits: 1 AIA HSW, AIA Course Provider #: 40107992, Course Provider: Knoll, June 16, 2021.
- *'Green Cities Barcelona'*, AIA Course #: DCA050621, Credits: 1 AIA LU, AIA Course Provider #: C501, Course Provider: Perkins Eastman, May 06, 2021.
- *'Mass Concrete: Does My Project Need a Thermal Control Plan?'*, AIA CES Course #: 202208WJE, Credits: 1 Professional Development Hour (PDH), AIA Course Provider #: K271, Course Provider: Wiss, Janney, Elstner Associates, Inc. (WJE), March 09, 2022.
- *'Sustainable Design Through Daylighting'*, Course #: KAL 012, Credits: 1 AIA LU | HSW, AIA Course Provider #: H144, Course Provider: Kalwall Corporation, May 05, 2021.
- *'Concrete Pavement Intersections'*, Course #: CPINT101, Credits: 1 AIA LU | PDH, AIA Course Provider #: G416, Course Provider: NRMCA | Pave Ahead, June 17, 2021.
- *'Controlled Low Strength Material (CLSM) in Transportation Projects'*, Course #: CLSM101, Credits: 1 AIA LU | PDH, AIA Course Provider #: G416, Course Provider: NRMCA | Pave Ahead, June 24, 2021.
- *'Designing Touchless Solutions for Proper Hand Hygiene in Commercial Restrooms'*, Course #: THCR, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 40107485, Course Provider: Excel Dryer, January 13, 2021.
- *'Detailing for Durable Wood Buildings: Where Structure and Moisture Meet'*, AIA Course #: WEB170, HSW, ICC Course #: 27677, Credits: 1 AIA LU | HSW | PDH - 0.1 ICC | CEU, AIA Course Provider #: G516, Course Provider: WoodWorks, May 12, 2021. ([Link](#))
- *'Masonry Construction Documentation Requirements '*, Course #: MASDOC21, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Dortronics Systems. Inc., March 31, 2022.
- *'Energy Solutions with High Performance Masonry'*, AIA Course Program #: ENGPFORM21, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., June 16, 2021.
- *'Energy Solutions with High Performance Masonry'*, AIA Course Program #: ENGPFORM21, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., June 16, 2021.
- *'Incorporating the Forgotten Thermal Benefits of Brick'*, Credits: 1 AIA LU | HSW | PDH, Course Provider: Masonry Institute of Michigan, Inc., March 03, 2022.
- *'Masonry Flashing'*, AIA Course Program #: Flashing21, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., April 28, 2021.
- *'Mastering your Masonry Specification'*, AIA Course Program #: MasterSpec, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., May 05, 2021.
- *'Multi-Wythe Masonry Walls'*, AIA Course Program #: MULTIWALLS21, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., June 30, 2021.
- *'Designing and Detailing Durable Masonry Walls'*, Course #: 21D&DDMW10, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G390, Course Provider: International Masonry Institute (IMI), February 08, 2022.
- *'Rainscreen Options and Solutions'*, Course #: 21RSOS10, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: G390, Course Provider: International Masonry Institute (IMI), October 20, 2021.

- '*Exterior Cladding Innovation: Rainscreen Design with Ultracompact Surfacing*', AIA Course #: COSFc20, IDCEC Approved Course #: 107016-R1, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 40107781, Course Provider: Cosentino North America, February 09, 2021.
- '*Insulated Metal Panels Barrier Wall Systems*', AIA Course #: IMP014, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: K422, Course Provider: Metl-Span, December 02, 2020.
- '*Lab Vacuum Options for Science Labs: Maximizing Building Performance & Sustainability*', AIA Course #: VAC0103, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 40107861, Course Provider: VACUUBRAND, Inc., January 13, 2021.
- '*Specifications Strategies to Eliminate Concrete Moisture*', AIA Course #: ISL03H, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: ISL03H, Course Provider: ISE Logik Industries, Inc., December 02, 2020.
- '*Zero is the Future of Housing... And No Extra Cost if Optimized*', AIA Course #: 203, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 50111211, Course Provider: Structural Insulated Panel Association, August 06, 2020.
- '*Outdoor Kitchen Design with Stainless Steel Cabinetry*', AIA Course #: DBJOK101B, IDCEC Approved Course #: 105574, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 404108250, Course Provider: Brown Jordan Outdoor Kitchens, December 01, 2020.
- '*Optimized Insulation*', AIA Course #: OPTInsul, Credits: 1 AIA LU/HSW, AIA/CES Course Provider #: J320, Course Provider: Firestone Building Products, February 09, 2021.
- '*Glass Production, Processing & Performance*', AIA Course #: VITAIACES04, Credits: 1 AIA LU/HSW, Course Provider: Vitro Architectural Glass, November 13, 2020.
- '*Duct & Envelope Testing Basics*', AIA Course #: VITAIACES04, Credits: 3 UCC, Course Provider: Performance System Development - Mass Save, June 30, 2021.
- '*9th Edition Energy Code: Top 10 Things You Need to Know*', AIA Course # Module: 1.2 (C), AIA Session #: 5, Credits: 1 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, January 27, 2021.
- '*Designers, Builders, and Code Officials Working Together for Energy Code Compliance*', AIA Course # Module: 4.3 (C), AIA Session #: 6, Credits: 1 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, October 27, 2021.
- '*Commercial Air Barriers - Three Options for Compliance*', AIA Course # Module: 3.1 (C), Credits: 1 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, June 30, 2021.
- '*Solar Ready Provisions of the 9th Edition and IECC*', AIA Course # Module: 1.1, AIA Session #: 3, Credits: 3 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, January 27, 2021.
- '*Stretch Code Overview and Compliance Options*', AIA Course # Module: 4.1 (R), AIA Session #: 11, Credits: 1 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, October 27, 2021.
- '*COMcheck 101: A New Energy Code Requirement Made Easy*', AIA Course # Module: 2.1 (C), AIA Session #: 5, Credits: 1 LU/HSW, AIA Course Provide #: 404108983, Course Provider: Performance System Development - Mass Save, March 31, 2021.

- '*COMcheck and Your Existing Building Projects*', Credits: 1 Credit Hour, Course Provider: Performance System Development - Mass Save, September 24, 2021.
- '*COMcheck Case Study - Simple Commercial Building Case Study*', Credits: 1 Credit Hour, Course Provider: Performance System Development - Mass Save, September 24, 2021.
- '*Environmental Impacts of Building Materials*', AIA Program #: EIB-101, Credits: 1 AIA LU | HSW - 1 PDH - 0.1 Continuing Education Units (CEU), Course Provider: NRMCA, July 28, 2021.
- '*Ready-Mixed Products for Municipal Airport Runways and Taxiways*', Course #: AIR101, Credits: 1 AIA LU | PDH, AIA Course Provider #: G416, Course Provider: NRMCA | Pave Ahead, June 10, 2021.
- '*Architecturally Exposed Structural Steel: Getting the Desired Result (PES1401)*', Credits: 1 AIA LU | HSW, Course Provider: PES Structural Engineers, July 22, 2020.
- '*Decarb Lunch*', Credits: 1 PDH, Course Provider: ZEBx, January 28, 2022.
- '*Deep Emissions Retrofit Dialogue*', Credits: 1 PDH, Course Provider: ZEBx, February 12, 2022.
- '*Designing with Wood Floors*', AIA Course #: 10851, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 50111127, Course Provider: National Wood Flooring Association (NWFA), August 05, 2021.
- '*How Cut Affects the Appearance of Wood Flooring*', AIA Course #: 102503, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: 50111127, Course Provider: National Wood Flooring Association (NWFA), June 29, 2021.
- '*The Role of Wood Products in Green Building*', AIA Course #: TW2008-1, Credits: 1 AIA LU | HSW, Course Provider: Think Wood Co.-The Wood institute, June 29, 2021.
- '*High Performance and Lower Impact: How LCAs and EPDs are Driving Decarbonization in the Built Environment sponsored by Think Wood*', Course Provider: Think Wood, November 11, 2021.
- '*Lateral Design for Mass Timber Structures: How to Do It, How It's Been Done*', AIA Course #: 22WS04, ICC Course #: 31644, Credits: 1.5 AIA LU/HSW - 1.5 PDH - 0.15 ICC/CEU, AIA Course Provider #: G516, FL PE Provider #: 0005738, Course Provider: Wood Works, December 08, 2021. ([Link](#))
- '*Interior Wall and Floor Assemblies in Mid-Rise Multi-Family: Designing for Fire, Acoustics & Structure*', AIA Course #: WEB177, ICC Course #: 29464, Credits: 1 AIA LU/HSW - 1 PDH - 0.1 ICC/CEU, AIA Course Provider #: G516, FL PE Provider #: 0005738, Course Provider: Wood Works, May 05, 2022. ([Link](#))
- '*Incorporating the Forgotten Thermal Benefits of Brick*', AIA Course Program #: BIA301, Credits: 1 AIA LU, AIA/CES Course Provider #: G128, Course Provider: Brick Industry Association, March 03, 2022.
- '*Masonry Fire Resistance Ratings*', AIA Course Program #: FIRE2022, Credits: 1 AIA LU, AIA/CES Course Provider #: G350, Course Provider: Masonry Institute of Michigan, Inc., April 27, 2022.
- '*Collaborative Digital Delivery In The Age of Information Privacy and Cyber Security*', AIA Course Program #: FIRE2022, Credits: 1.5 AIA LU/HSW - 1.5 PDH - 0.15 ICC/CEU, AIA/CES Course Provider #: G350, Certificate ID: 36cdd38b-36e8-45e6-b19e-9f3fbb368fc3, Course Provider: National Institute of Building Sciences, June 01, 2022. ([Link](#))
- '*Specifying Commercial Wood Floors*', AIA Course Program #: 107501, IDCEC Course Program #: 104082-R2, Credits: 1 AIA LU/HSW - 0.15 IDCEC/CEU, Course Provider: National Wood Flooring Association, May 05, 2022.
- '*Magdalene College Library*', Course Provider: Timber Development UK's designTimber, May 18, 2022.

- *'Building Enclosure Commissioning'*, AIA Course Program #: TRS 083, Credits: 1 AIA LU, AIA/CES Course Provider #: J157, Course Provider: Tremco Incorporated, June 2021.
- *'Drainable EIFS, You Are My Hero'*, AIA Course Program #: TRS 082, Credits: 1 AIA LU, AIA/CES Course Provider #: J157, Course Provider: Tremco Incorporated, June 2021.
- *'Marry Me? Wait! Wait! Are We Compatible?'*, AIA Course Program #: TRS 081, Credits: 1 AIA LU, AIA/CES Course Provider #: J157, Course Provider: Tremco Incorporated, June 2021.
- *'Dispelling the Myths around Designing and Drafting with Insulated Concrete Forms (ICF)'*, AIA Course Program #: 0710, Credits: 1 AIA LU, AIA/CES Course Provider #: J702, Course Provider: Tremco Nudura Incorporated, September 22, 2021.
- *'Hardwood Floor Finishing'*, AIA Course #: BONA101A, Credits: 1 AIA LU | HSW, AIA/CES Course Provider #: J858, Course Provider: Bona US, December 01, 2020.
- *'High Performance Coatings for Floors and Walls'*, IDCEC Class Code: CEU-101827, Credits: 1 AIA LU | HSW, CEU Value: 0.1 CEU, Subject Code: 5-1, AIA/CES Course Provider #: K065, Course Provider: The Sherwin-Williams Company, March 23, 2022.
- *'Silicone Coatings: An Alternative to Ceramic Frit for Spandrel Glass'*, AIA Course ID: 1032021, GBCI Course ID: 0920021917, Credits: 1 AIA LU | HSW - 1 GBCI - 1 Universal CEU - 1 AAA LU, AIA Provider #: K122, Course Provider: ICD High Performance Coatings + Chemistries, July 16, 2021.
- *'Silicone Coatings: A Guide to Specifying Spandrel and Backpainted Glass'*, AIA Course ID: ICD5012021, Credits: 1 AIA LU | HSW - 1 Universal CEU, AIA Provider #: K122, Course Provider: ICD High Performance Coatings + Chemistries, July 22, 2021.
- *'Silicone Coatings: A Risk Mitigation Strategy for Thermal Stress Breakage'*, AIA Course ID: ICD2012020, Credits: 1 AIA LU | HSW - 1 AIBC Core LU - 1 Universal CEU - 1 AAA LU, AIA Provider #: K122, Course Provider: ICD High Performance Coatings + Chemistries, June 29, 2021.
- *'Silicone Coatings: A Color Selection Strategy for Backpainted Glas'*, AIA Course ID: ICD4012021, Credits: 1 AIA LU | HSW - 1 AIBC LU - 1 Universal CEU - 1 AAA LU, AIA Provider #: K122, Course Provider: ICD High Performance Coatings + Chemistries, May 14, 2021.
- *'Solar PV: Technology and Valuation'*, BREA Course Approval #: 17CP959503002, Continuing Education Units: 3 Hours, Course Provider: BREA, October 21, 2020.
- *'Carbon Free Homes: Features, Benefits, Valuation'*, BREA Course Approval #: 17CP959503002, Continuing Education Units: 3 Hours, Course Provider: BREA, October 05, 2020.
- *'Lintels for Masonry Walls'*, AIA Course ID: ICD4012021, Credits: 1 AIA LU | HSW - 1 AIBC LU - 1 Universal CEU - 1 AAA LU, AIA Provider #: K122, Course Provider: Masonry Advisory Council, August 19, 2021.
- *'Building Information Modeling (BIM) and Asset Management'*, Course Provider: AASHTO Webinar GTWT3, American Association of State Highway and Transportation Officials, June 09, 2021.
- *'The Benefits of BIM Content and 3D Visualisation'*, Course Provider: NBS Webinars, May 17, 2021.
- *'Protected Membrane Roof (PMR) Systems for Low Slope Roof Assemblies'*, AIA Course #: T037CES02-1, Credits: 1 AIA LU | HSW, Course Provider: Arriscraft, May 05, 2021.

- *'Pushing the Envelope- Continuous Insulation Solutions for Thin Adhered Masonry Veneers-PTEICB'*, Credits: 1 AIA LU | HSW, Course Provider: Arriscraft, October 20, 2021.
- *'Understanding the Challenges of the Building Enclosure'*, Course Provider: Owens Corning - Vapour Shield, September 21, 2021.
- *'#Grow Your Knowledge - Predicting and Assessing Overheating in Buildings'*, Course Provider: CIBSE, May 06, 2021.
- *'Modeling HVAC Systems: From Concept Through Detailed Design'*, Course Provider: DesignBuilder, December 08, 2021.
- *'BIM and GIS'*, Credits: 1 PDH, Course Provider: American Association of State Highways and Transportation Officials (AASHTO), May 18, 2022.
- *'The Illinois Energy Code Training Program Webinar: 2021 IECC Updates'*, Credits: 1 AIA LU | HSW & 0.1 ICC, AIA Course #: A129, ICC Course #: 32339, Course Provider: Smart Energy Design Assistance Center (SEDAC) (University of Illinois at Urban-Champaign), May 25, 2022.
- *'The Illinois Energy Code Training Program Webinar: Building Energy Education for Architects: Passive House High Performance Design'*, Credits: 1.5 AIA LU | HSW & 0.15 ICC, AIA Course #: A129, ICC Course #: 32260, Course Provider: Smart Energy Design Assistance Center (SEDAC) (University of Illinois at Urban-Champaign), May 19, 2022.
- *'Understanding Modern Building Practices Through Historical Developments'*, Credits: 1 AIA LU | HSW, Course Provider #: K094, Course Provider: Huber Engineered Woods, May 04, 2022.

25.15. Zero Waste Scotland

- *'Green Champions Training: Action Planning'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Collecting Data-Energy'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Collecting Data-Materials'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Collecting Data-Water'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Data Analysis'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Getting Standard'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Why Resource Efficiency'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Foundation Modules'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))
- *'Green Champions Training: Developing Communications'*, Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, April 22, 2021. ([Link](#))

- '*Green Champions Training: Energy: Heat Loss*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 28, 2022. ([Link](#))
- '*Green Champions Training: Energy: Lighting Controls*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 28, 2022. ([Link](#))
- '*Green Champions Training: Energy: Lighting Quick-Wins*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 28, 2022. ([Link](#))
- '*Green Champions Training: Energy: Workshop Lighting*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 28, 2022. ([Link](#))
- '*Green Champions Training: Energy: Office Lighting*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 30, 2022. ([Link](#))
- '*Green Champions Training: Energy: Heating Quick-Wins*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 30, 2022. ([Link](#))
- '*Green Champions Training: Energy: Boilers*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 30, 2022. ([Link](#))
- '*Green Champions Training: Waste: Quick-Wins*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 30, 2022. ([Link](#))
- '*Green Champions Training: Waste: Re-use*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))
- '*Green Champions Training: Waste: Recycling*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))
- '*Green Champions Training: Water: Quick-wins*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))
- '*Green Champions Training: Water: Toilets*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))
- '*Green Champions Training: Water: Taps*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))
- '*Green Champions Training: Water: Urinals*', Credit: 1 Hour CPD, Course Provider: Zero Waste Scotland-Energy Efficiency Business Support, March 31, 2022. ([Link](#))

25.16. LinkedIn

- '*Become a Python Developer*', Course Length: 19 hours 27 min, Learning Path Completion, Certificate ID: AZ0fIocObg-2UsZCmv_fQZyGNqXA, Top Skills Covered: Data Structures, Software Development, Python (Programming Language), LinkedIn Learning, May 12, 2022. ([Link](#))
- '*Python for Non-Programmers*', Course Length: 1 hour 55 min, Course Completion, Certificate ID: Ac-S3tYxaWjfp36WJtSJAVHsGwQT, LinkedIn Learning, May 08, 2022. ([Link](#))
- '*Python Object-Oriented Programming*', Course Length: 1 hour 36 min, Course Completion, Certificate ID: Ac43F_iWAUVbz5rEw0EeZqXDgUM-, LinkedIn Learning, May 09, 2022. ([Link](#))

- '*Learning the Python 3 Standard Library*', Course Length: 2 hours 09 min, Course Completion, Certificate ID: AavtbjENzkzbbQ1qDhyv0_6M_d_o, LinkedIn Learning, May 07, 2022. [\(Link\)](#)
- '*Programming Foundations: Real-World Examples*', Course Length: 3 hours 08 min, Course Completion, Certificate ID: AQYQVkmQvtZo_bKz-ouhdzYi1Wlx, LinkedIn Learning, May 07, 2022. [\(Link\)](#)
- '*Programming Foundations: Data Structures*', Course Length: 2 hours 20 min, Course Completion, Certificate ID: Aa_q6QpQ3ea-uWVMx08W8SDc400B, LinkedIn Learning, May 08, 2022. [\(Link\)](#)
- '*Programming Foundations: Algorithms*', Course Length: 1 hour 45 min, Course Completion, Certificate ID: AektAQ7ydFj2MX_cPLvovgOviMCY, LinkedIn Learning, May 09, 2022. [\(Link\)](#)
- '*8 Things You Must Know in Python*', Course Length: 56 min, Course Completion, Certificate ID: AfNLJ3faE8ljES98crUD1xa0Tcjy, LinkedIn Learning, May 06, 2022. [\(Link\)](#)
- '*Nail Your Python Interview*', Course Length: 56 min, Course Completion, Certificate ID: AVuWyP05fAdu2v4LMmlK7FP-leW5, LinkedIn Learning, May 12, 2022. [\(Link\)](#)
- '*Master Advanced Excel Data & Analytics Skills*', Course Length: 14 hours 37 min, Learning Path Completion, Certificate ID: AWF6uudITqVELfZkdI_b9zmVB6Qr, Top Skills Covered: Data Analysis, Microsoft Excel, LinkedIn Learning, April 17, 2022. [\(Link\)](#)
- '*Excel VBA: Managing Files and Data*', Course Length: 3 hours 46 min, Course Completion, Certificate ID: ARlK6Xa_pF-cOboYUeaNFg9iOZb0, LinkedIn Learning, April 14, 2022. [\(Link\)](#)
- '*Excel VBA: Process Modeling*', Course Length: 2 hours 27 min, Course Completion, Certificate ID: AemVzjbWlt-0YAInKfGq7SjzJaxg, LinkedIn Learning, April 14, 2022. [\(Link\)](#)
- '*Excel: Working Together with Power Query and Power Pivot*', Course Length: 46 min, Course Completion, Certificate ID: AW_4V7q6gaujM5CJzo82WERxbLcz, LinkedIn Learning, April 15, 2022. [\(Link\)](#)
- '*Using Python with Excel*', Course Length: 1 hour 22 min, Course Completion, Certificate ID: AfkxCT9H2HmljHyEpmwJ4rcXoedb, LinkedIn Learning, April 15, 2022. [\(Link\)](#)
- '*From Excel to SQL*', Course Length: 1 hour 24 min, Course Completion, Certificate ID: AdGmld9K3AIGCbCf49DsI8v6RQt, LinkedIn Learning, April 16, 2022. [\(Link\)](#)
- '*Machine Learning with Logistic Regression in Excel, R, and Power BI*', Course Length: 2 hours 49 min, Course Completion, Certificate ID: AYSVbfBlInvgd9OR1xj6i-1oDPQB5, LinkedIn Learning, April 16, 2022. [\(Link\)](#)
- '*Business Analytics: Multiple Comparisons in R and Excel*', Course Length: 59 min, Course Completion, Certificate ID: Ab1hhGNbKsSgCn3DpulnA_hDX9xl, LinkedIn Learning, April 16, 2022. [\(Link\)](#)
- '*Business Analytics: Understanding and Using Confidence Intervals*', Course Length: 1 hours 1 min, Course Completion, Certificate ID: AS6tk8nPcPyEISZxf7s87wRW76A, LinkedIn Learning, April 17, 2022. [\(Link\)](#)
- '*Advance Your Skills in AI and Machine Learning*', Course Length: 11 hours 19 min, Learning Path Completion, Certificate ID: AWi4Ed9xmtG9DQAON0qawXjUXZxP, Top Skills Covered: Marketing, Mathematica, Machine Learning, Apache Spark, Google Cloud Platform (GCP), Python (Programming Language), Artificial Intelligence (AI), Amazon Web Services (AWS), LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Learning Amazon SageMaker*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: AexHV6TvAV0jZQQCg6GPOc4pfJil, LinkedIn Learning, February 20, 2022. [\(Link\)](#)

- '*Mathematica 11 Machine Learning*', Course Length: 1 hour 15 min, Course Completion, Certificate ID: Ab6KkzEqfQPlEEM4WStf7-IbdiYy, LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Spark for Machine Learning & AI*', Course Length: 1 hour 51 min, Course Completion, Certificate ID: ARTAbp1TenU5Jq3mon7Rw0Bah_cU, LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Amazon Web Services Machine Learning Essential Training*', Course Length: 3 hours 7 min, Course Completion, Certificate ID: AWZpD-CWOMiDeHArOj0Xi08SBnMh, LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Google Cloud Platform for Machine Learning Essential Training*', Course Length: 2 hours 57 min, Course Completion, Certificate ID: Ac_rW_87LrgsxFPRsZ5TlrWMeJSB, LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Machine Learning for Marketing: Essential Training*', Course Length: 55 min, Course Completion, Certificate ID: AeT62zHjYgwDyuH_dhYPbkuSxNQ1, LinkedIn Learning, March 11, 2022. [\(Link\)](#)
- '*Advance Your Skills in GIS*', Course Length: 13 hours 13 min, Learning Path Completion, Certificate ID: AR7KZYrXye6Ox-UlChTpoCCUaJ9, Top Skills Covered: ArcGIS Products, Data Visualization, Geographic Information Systems (GIS), LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*Real-World GIS*', Course Length: 2 hours 43 min, Course Completion, Certificate ID: AZ9dqTfJXqHzB37A4YObKPV4Iud2, LinkedIn Learning, March 26, 2022. [\(Link\)](#)
- '*ArcGIS Pro Essential Training (2019)*', Course Length: 2 hours 20 min, Course Completion, Certificate ID: AaTcFIYTDsUH157AiRW5zK527fz1, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*Learning QGIS*', Course Length: 2 hours 57 min, Course Completion, Certificate ID: AVO46MIEE9ijTuvrIB-ytWHZlwnu, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*InfraWorks and ArcGIS: AEC Collaboration*', Course Length: 2 hours 53 min, Course Completion, Certificate ID: Ab8mDO2nAQ2ldV79lLTBXHHyBzb3, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*QGIS and Python for AEC*', Course Length: 2 hours 18 min, Course Completion, Certificate ID: ATC77BxffJ6dTpbEHfzvp_zPMxE, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*Advance Your Skills in Python*', Course Length: 14 hours 34 min, Learning Path Completion, Certificate ID: Af2tBBLZuj_C8Wuor8KzyGuK_poY, Top Skills Covered: Programming Languages, Programming, Object-oriented Languages, Python (Programming Language), Object-Oriented Programming (OOP), LinkedIn Learning, March 21, 2022. [\(Link\)](#)
- '*Python Projects*', Course Length: 1 hour 30 min, Course Completion, Certificate ID: AZBwHolJKASsuom7rgHCJCSfGxog, LinkedIn Learning, March 20, 2022. [\(Link\)](#)
- '*Python Code Challenges*', Course Length: 48 min, Course Completion, Certificate ID: AZ_p-7ocsaB8C_gE7INeJOPY-EA1, LinkedIn Learning, March 20, 2022. [\(Link\)](#)
- '*Python: Design Patterns*', Course Length: 2 hours 12 min, Course Completion, Certificate ID: AZm22ArV-vuc_R94fZzpxbMceov0, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Python Data Structures and Algorithms*', Course Length: 2 hours 16 min, Course Completion, Certificate ID: AZgKTFI5m4XtmN90Doz3PDryKYzd, LinkedIn Learning, March 20, 2022. [\(Link\)](#)
- '*Python Automation and Testing*', Course Length: 1 hour 27 min, Course Completion, Certificate ID: AdZH0WeS-K2QGCabDKu4WwZqQLC7, LinkedIn Learning, March 20, 2022. [\(Link\)](#)

- '*Python GUI Development with Tkinter*', Course Length: 4 hours 55 min, Course Completion, Certificate ID: AXXmYjYfZMb6VMrysTr1XCVnVjBI, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Web Scraping with Python*', Course Length: 1 hour 23 min, Course Completion, Certificate ID: AfAg4ZtWLxNWgG7SZ9P-domuLlKT, LinkedIn Learning, March 21, 2022. [\(Link\)](#)
- '*Become a BIM Coordinator*', Course Length: 9 hours 6 min, Learning Path Completion, Certificate ID: AY2IdHfwZBIWnCSvuJVkFzJEYisj, Top Skills Covered: Building Information Modeling (BIM), Architecture, Revit, Architectural Design, LinkedIn Learning, February 13, 2022. [\(Link\)](#)
- '*BIM Foundations*', Course Length: 1 hour 18 min, Course Completion, Certificate ID: AW2Pims2mNMwazmsPvsou_BlzVi, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- '*BIM Management: Careers*', Course Length: 2 hours 8 min, Course Completion, Certificate ID: AakqCdeCARQwIBul2r6byisZDQkD, LinkedIn Learning, February 12, 2022. [\(Link\)](#)
- '*Creating a BIM Execution Plan*', Course Length: 1 hour 6 min, Course Completion, Certificate ID: ASWDktYRNFeg9IMxgavLIMvD-9zT, LinkedIn Learning, February 12, 2022. [\(Link\)](#)
- '*BIM Manager: Managing CAD Standards*', Course Length: 55 min, Course Completion, Certificate ID: AVWtZ9ZYQwRxBNFzJ7pwKJ3JAO7G, LinkedIn Learning, February 12, 2022. [\(Link\)](#)
- '*BIM Manager: Managing BIM 360*', Course Length: 36 min, Course Completion, Certificate ID: AfemQUd0ke2xlf0QwtWUx6LNaT53, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- '*BIM Manager: Managing Revit*', Course Length: 3 hours 1 min, Course Completion, Certificate ID: AYICQKXmVf6iBAlyfcbxVOKTXIAN, LinkedIn Learning, February 13, 2022. [\(Link\)](#)
- '*Become a Data Analyst*', Course Length: 38 hours 24 min, Learning Path Completion, Certificate ID: Aa7NvWddc8_XPBbSaebQJarVVB1n, Top Skills Covered: Data Analysis, Data Visualization, Data Analytics, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*The Non-Technical Skills of Effective Data Scientists*', Course Length: 44 min, Course Completion, Certificate ID: AXim51gT60Tv5EwlgQMFTcX7e_2q, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- '*Learning Excel: Data Analysis*', Course Length: 3 hours 9 min, Course Completion, Certificate ID: ATdnv4SjouZoQEayINAODmPhelHx, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- '*Data Fluency: Exploring and Describing Data*', Course Length: 4 hours 19 min, Course Completion, Certificate ID: ARxhCXDMdQtXvT13XlvJguUn0483, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- '*Learning Data Analytics: 1 Foundations*', Course Length: 3 hours 29 min, Course Completion, Certificate ID: AS5BfFifT5-C8Q00b5UCAE2GzTBT, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- '*Learning Data Analytics Part 2: Extending and Applying Core Knowledge*', Course Length: 3 hours 23 min, Course Completion, Certificate ID: AeWUIyPLr9-EJg9_W-R3VHw9lyn0, LinkedIn Learning, March 05, 2022. [\(Link\)](#)
- '*Excel Statistics Essential Training: 1*', Course Length: 3 hours 37 min, Course Completion, Certificate ID: AVpFjBneABcCb7AvIT-3_UHw2IEg, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- '*Predictive Analytics Essential Training: Data Mining*', Course Length: 1 hour 54 min, Course Completion, Certificate ID: AZ3H2NmGVEU7EM7C0DeCoaKHQ2el, LinkedIn Learning, March 05, 2022. [\(Link\)](#)

- '*Power BI Essential Training*', Course Length: 3 hours 20 min, Course Completion, Certificate ID: AXxx1Py7VzacNeMNoBRj9Z57PLKi, LinkedIn Learning, March 05, 2022. [\(Link\)](#)
- '*Learning Data Visualization*', Course Length: 3 hours 49 min, Course Completion, Certificate ID: AUJKOGYZiHslrQmE598tuzBnB99D, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*Tableau Essential Training*', Course Length: 4 hours 10 min, Course Completion, Certificate ID: AfZDIX1kXBwbtXJ3k9DQlasbyiWk, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*SQL: Data Reporting and Analysis*', Course Length: 2 hours 17 min, Course Completion, Certificate ID: Aeal_R3ak5jHA20iPmBKXaX_xFMn, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*R Essential Training: Wrangling and Visualizing Data*', Course Length: 4 hours 18 min, Course Completion, Certificate ID: ASYM9N64JMPHEYQGWGuXgu51PGy, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*Data Cleaning in Python Essential Training*', Course Length: 49 min, Course Completion, Certificate ID: ASXvxDn3LjiXjcZgUtB4KJPse-K8, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- '*Become a Data Analytics Specialist*', Course Length: 14 hours 26 min, Learning Path Completion, Certificate ID: Aa7NvWddc8_XPBbSaebQJarVVB1n, Top Skills Covered: Data Analysis, Statistics, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Data Analytics for Students (2020)*', Course Length: 1 hour 0 min, Course Completion, Certificate ID: AexrsmP-hjp2uH98oblHacw8UGBT, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Data Analytics: Dashboards vs. Data Stories*', Course Length: 17 min, Course Completion, Certificate ID: AdG099UXidvloCRtEjd4jc50dljY, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Data Analytics: Graph Analytics*', Course Length: 19 min, Course Completion, Certificate ID: AY9gGyMU7Hom4AQ74LyCTVk2oBZV, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Statistics Foundations: The Basics*', Course Length: 33 min, Course Completion, Certificate ID: AerPXXz0_Gq-u6VSQhmR4uASv-qv, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- '*Statistics Foundations: Probability*', Course Length: 1 hour 10 min, Course Completion, Certificate ID: AQ7CVk8kdSqx2ARbZeECXNRE6re4, LinkedIn Learning, March 07, 2022. [\(Link\)](#)
- '*Excel: Economic Analysis and Data Analytics*', Course Length: 1 hour 37 min, Course Completion, Certificate ID: AaLYhxY_YNdQP0z7NNn3UYmmKyr8, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Certified Analytics Professional (CAP) Cert Prep: Domains 1-4*', Course Length: 1 hour 31 min, Course Completion, Certificate ID: Abl6xlkAMys854t2z8KMmXJkWlsy, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Certified Analytics Professional (CAP) Cert Prep: Domains 5-7*', Course Length: 1 hour 4 min, Course Completion, Certificate ID: Aff-A7n8Q6U6EnsuFRfOh3FNZGW6, LinkedIn Learning, March 09, 2022. [\(Link\)](#)
- '*Become a Data Science Team Member*', Course Length: 14 hours 26 min, Learning Path Completion, Certificate ID: AVQaVYv6p7HbTIC90RHKhLth3eW6, Top Skills Covered: Big Data, Data Analysis, Data Science, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Learning Data Science: Understanding the Basics*', Course Length: 1 hour 16 min, Course Completion, Certificate ID: ARLWyyJh7F5NKijhrLUNBJuP6ME, LinkedIn Learning, March 22, 2022. [\(Link\)](#)
- '*Learning Data Science: Manage Your Team*', Course Length: 1 hour 14 min, Course Completion, Certificate ID: AQWdtuaihN0rXnIE4ZG1Ry1DOrFf, LinkedIn Learning, March 23, 2022. [\(Link\)](#)

- '*Learning Data Science: Using Agile Methodology*', Course Length: 1 hour 16 min, Course Completion, Certificate ID: AccF_BgJY3ICirmQ9-nGrdzciHm6, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Learning Data Science: Ask Great Questions*', Course Length: 1 hour 14 min, Course Completion, Certificate ID: AbO4LgAbY3rp07tVMvfsjPywDDqO, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Learning Data Science: Tell Stories With Data*', Course Length: 1 hour 17 min, Course Completion, Certificate ID: AcVX-mhi6NZGI6_81wsm4gLeNas_, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Become a Data Scientist*', Course Length: 20 hours 6 min, Learning Path Completion, Certificate ID: AbUtbV-Jms05hw0itaQ9q3-_IqxM, Top Skills Covered: Big Data, Data Analysis, Data Visualization, Statistics, LinkedIn Learning, March 08, 2022. [\(Link\)](#)
- '*A Day In The Life of a Data Scientist*', Course Length: 1 hour 3 min, Course Completion, Certificate ID: AbiN2ej-7RPlyZDv7pLXUa2Lnl6b, LinkedIn Learning, March 06, 2022. [\(Link\)](#)
- '*Data Science & Analytics Career Paths & Certifications: First Steps*', Course Length: 1 hour 12 min, Course Completion, Certificate ID: ARbXme1C-W2hwiORxyJMU9VUeiVD, LinkedIn Learning, March 07, 2022. [\(Link\)](#)
- '*Data Science Foundations: Fundamentals (2019)*', Course Length: 3 hours 41 min, Course Completion, Certificate ID: AVH23AeK44nwKgpu5pdT3lksj45s, LinkedIn Learning, March 07, 2022. [\(Link\)](#)
- '*Data Visualization: Storytelling*', Course Length: 1 hour 34 min, Course Completion, Certificate ID: AR7U52NkJGwKv6kIRtadtQ9w7s3, LinkedIn Learning, March 07, 2022. [\(Link\)](#)
- '*Big Data in the Age of AI*', Course Length: 2 hours 7 min, Course Completion, Certificate ID: AQUx_LmriA2GiGAsy1V9tivwaOaM, LinkedIn Learning, March 08, 2022. [\(Link\)](#)
- '*Learning Data Governance*', Course Length: 1 hour 24 min, Course Completion, Certificate ID: AVY0XeeuVPsDtIx0KlMkFtbSqFAN, LinkedIn Learning, March 08, 2022. [\(Link\)](#)
- '*Lessons from Data Scientists*', Course Length: 50 min, Course Completion, Certificate ID: AY0t-k6Y-vV8hqRE6ce20av3Hka-, LinkedIn Learning, March 08, 2022. [\(Link\)](#)
- '*Side Hustle Strategies for Data Science and Analytics Experts*', Course Length: 1 hour 24 min, Course Completion, Certificate ID: AZ0hpQVrlihzyInNrrQAJMdQnHfQ, LinkedIn Learning, March 08, 2022. [\(Link\)](#)
- '*Become a Data Visualization Specialist: Concepts*', Course Length: 14 hours 10 min, Learning Path Completion, Certificate ID: Ae7H0KmzBssPQP6on-f2yvSZ49xd, Top Skills Covered: Data Visualization, LinkedIn Learning, March 24, 2022. [\(Link\)](#)
- '*Designing an Infographic*', Course Length: 1 hour 55 min, Course Completion, Certificate ID: AZi50cXyvhV-SjDOghUXeXSkVDgu, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Data Visualization: Best Practices*', Course Length: 1 hour 38 min, Course Completion, Certificate ID: AcSLDfR5SCGkb_9_SlgRQPuo8q1q, LinkedIn Learning, March 23, 2022. [\(Link\)](#)
- '*Data Visualization for Data Analysis and Analytics*', Course Length: 1 hour 40 min, Course Completion, Certificate ID: AQo1sN0a7rVQSA2j_diPq7Iczh8W, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- '*Data Visualization Tips and Tricks*', Course Length: 2 hours 14 min, Course Completion, Certificate ID: Aaad5tybgjklZaQyP8tmOiVimXI0, LinkedIn Learning, March 24, 2022. [\(Link\)](#)

- *'Become a Machine Learning Engineer'*, Course Length: 10 hours 58 min, Learning Path Completion, Certificate ID: ASkJTBrylwXwk6YJQkwqYLcOB5-s, Top Skills Covered: Machine Learning, LinkedIn Learning, March 30, 2022. [\(Link\)](#)
- *'Artificial Intelligence Foundations: Thinking Machines'*, Course Length: 1 hour 27 min, Course Completion, Certificate ID: AUpppaxHrWbRmJkWKAAOnxyQ8Ip38, LinkedIn Learning, March 01, 2022. [\(Link\)](#)
- *'Artificial Intelligence Foundations: Machine Learning'*, Course Length: 1 hour 17 min, Course Completion, Certificate ID: AUV30bzNM5DUE-3AI4XoQlhqIBej, LinkedIn Learning, February 28, 2022. [\(Link\)](#)
- *'Machine Learning with Python: Foundations'*, Course Length: 1 hour 43 min, Course Completion, Certificate ID: AVSh829CbKVi6Jo-VBURJlkYiDQ, LinkedIn Learning, March 29, 2022. [\(Link\)](#)
- *'Deep Learning: Getting Started'*, Course Length: 1 hour 8 min, Course Completion, Certificate ID: AZ1BrwwPA8R23AzzKNE5vDz9Yn_p, LinkedIn Learning, March 29, 2022. [\(Link\)](#)
- *'Reinforcement Learning Foundations'*, Course Length: 49 min, Course Completion, Certificate ID: AS_k_IJZlZ5O2xLHZyViLh3YMVR0, LinkedIn Learning, March 29, 2022. [\(Link\)](#)
- *'Building and Deploying Deep Learning Applications with TensorFlow'*, Course Length: 1 hour 46 min, Course Completion, Certificate ID: AYOuAFPm01g3NWm3gd8vpR0jyJ9l, LinkedIn Learning, March 29, 2022. [\(Link\)](#)
- *'Training Neural Networks in Python'*, Course Length: 1 hour 45 min, Course Completion, Certificate ID: AbbOVY0K9sVJhM2AeR1DOc98Bpfx, LinkedIn Learning, March 30, 2022. [\(Link\)](#)
- *'Developing Chatbots with Azure'*, Course Length: 1 hour 2 min, Course Completion, Certificate ID: Aapm0KRuncT7vBUDk9q-4cFuoEmE, LinkedIn Learning, March 30, 2022. [\(Link\)](#)
- *'Become a Machine Learning Specialist'*, Course Length: 17 hours 18 min, Learning Path Completion, Certificate ID: ASkJTBrylwXwk6YJQkwqYLcOB5-s, Top Skills Covered: Data Science, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- *'Machine Learning and AI Foundations: Decision Trees with SPSS'*, Course Length: 1 hour 16 min, Course Completion, Certificate ID: AfhwloZAKvzr8QuityqGtIQAhtUd, LinkedIn Learning, February 18, 2022. [\(Link\)](#)
- *'Deploying Scalable Machine Learning for Data Science'*, Course Length: 1 hour 43 min, Course Completion, Certificate ID: ATD44DgG62FrBE20VuX-uxtee1Ds, LinkedIn Learning, February 18, 2022. [\(Link\)](#)
- *'Building a Recommendation System with Python Machine Learning & AI'*, Course Length: 1 hour 38 min, Course Completion, Certificate ID: AVG5ZkcazU10QoxfVeuBem4y_h1X, LinkedIn Learning, February 18, 2022. [\(Link\)](#)
- *'Machine Learning and AI Foundations: Clustering and Association'*, Course Length: 3 hours 22 min, Course Completion, Certificate ID: Aa-EyWSqE1ow0ltrxYGftUdGQdvu, LinkedIn Learning, February 18, 2022. [\(Link\)](#)
- *'Machine Learning and AI: Advanced Decision Trees with SPSS'*, Course Length: 1 hour 16 min, Course Completion, Certificate ID: AcyVO4w7ph9K0iFHQn4ZxbsRyms_, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- *'Machine Learning and AI Foundations: Classification Modeling'*, Course Length: 2 hours 0 min, Course Completion, Certificate ID: AYhYaaycncWako9UBsxFs080dMM, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- *'Machine Learning and AI Foundations: Value Estimations'*, Course Length: 1 hour 4 min, Course Completion, Certificate ID: ARF3r-KD4uMH14PP4rSYwMngAdct, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- *'Machine Learning & AI Foundations: Linear Regression'*, Course Length: 3 hours 57 min, Course Completion, Certificate ID: AVemQ-vodoEt6fo0SzGvJo4RqT9l, LinkedIn Learning, February 18, 2022. [\(Link\)](#)

- '*Machine Learning and AI Foundations: Recommendations*', Course Length: 58 min, Course Completion, Certificate ID: AYZPsI5Qj5uR76tBmjK6K0M6FCSw, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Become an Instructional Designer*', Course Length: 7 hours 56 min, Learning Path Completion, Certificate ID: ATJw3BPiImVQ5h-fPtoU9yi7khJd, Top Skills Covered: Articulate Storyline, Training, Instructional Design, Captivate, E-Learning, Camtasia, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Instructional Design Essentials: Models of ID*', Course Length: 45 min, Course Completion, Certificate ID: AenxQYOprahnXVnvJs-Uusn43FHa, LinkedIn Learning, March 24, 2022. [\(Link\)](#)
- '*Instructional Design: Needs Analysis*', Course Length: 1 hour 25 min, Course Completion, Certificate ID: AfG149xGUeCcr973rjXTon4L5o9, LinkedIn Learning, March 24, 2022. [\(Link\)](#)
- '*Elearning Essentials: Storyboarding*', Course Length: 1 hour 5 min, Course Completion, Certificate ID: ATYjcQFgOL9JFmHpczGIStCo7ZQQ, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Instructional Design: Adult Learners*', Course Length: 45 min, Course Completion, Certificate ID: AUIWvFSx2dHKehqpvZTdgUtnWZZi, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Instructional Design: Creating Video Training*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: AViZe3X5F5ofm9b5enr_YvtMbtd1, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Instructional Design: Working with SMEs*', Course Length: 59 min, Course Completion, Certificate ID: AeC8WwG7Ec4hMTXLd6bOAJqbskZY, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Agile Instructional Design*', Course Length: 57 min, Course Completion, Certificate ID: AahMoUnQaZhKuyPal522dyVO4t4i, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Measuring Learning Effectiveness*', Course Length: 47 min, Course Completion, Certificate ID: ASWfnbXY9c_5IWxr4NULR3FNORb6, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Build Your Data Analysis Skills*', Course Length: 5 hours 9 min, Learning Path Completion, Certificate ID: AYUrhAFosV5ly6G-eX0Z6K9NDMO, Top Skills Covered: Data Analysis, Data Visualization, Data Analytics, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- '*Develop Your Course Design and Instructional Skills*', Course Length: 5 hours 9 min, Learning Path Completion, Certificate ID: AdT8XJJ23D4V_-hT-TD8Us27YOe2, Top Skills Covered: Training & Development, Instructional Design, Employee Training, E-Learning, Employee Learning & Development, Corporate Training, LinkedIn Learning, March 30, 2022. [\(Link\)](#)
- '*Foundations of Corporate Training*', Course Length: 1 hour 7 min, Course Completion, Certificate ID: AZvLQ8x0ik6rt5mmmmDB6A4YtaZTe, LinkedIn Learning, March 25, 2022. [\(Link\)](#)
- '*Inclusive Instructional Design*', Course Length: 1 hour 13 min, Course Completion, Certificate ID: AYXNRjAGS1XpPOqkFxdU1H8Jo5nK, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*Brain-Based Elearning Design*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: AUJdJ3VX1HT287izAd-XGjYYg4v7, LinkedIn Learning, March 27, 2022. [\(Link\)](#)
- '*Using Neuroscience for More Effective L&D*', Course Length: 1 hour 8 min, Course Completion, Certificate ID: AX_BBLRn_K10nqaxEvULME-3w_4, LinkedIn Learning, March 30, 2022. [\(Link\)](#)
- '*Training with Stories*', Course Length: 33 min, Course Completion, Certificate ID: AXC5k7gqEDNfaghENPMHU4KWnI04, LinkedIn Learning, March 30, 2022. [\(Link\)](#)

- '*Learning to Teach Online*', Course Length: 46 min, Course Completion, Certificate ID: ASX-YXrrEBOeTZZva_77DxD0QdTh, LinkedIn Learning, March 30, 2022. ([Link](#))
- '*Applying Analytics to Your Learning Program*', Course Length: 43 min, Course Completion, Certificate ID: AT5YG4SMYQdrVJubTTd1H_sED6ob, LinkedIn Learning, March 30, 2022. ([Link](#))
- '*Creating a Culture of Learning*', Course Length: 37 min, Course Completion, Certificate ID: AfjJxscAOs9Ms76Eko7nmq9Rv4dF, LinkedIn Learning, March 30, 2022. ([Link](#))
- '*Develop Your Data Analysis Skills*', Course Length: 16 hours 18 min, Learning Path Completion, Certificate ID: AdrhosAml0-xNtA1ib2wQD6S5raZ, Top Skills Covered: Data Analysis, Statistical Data Analysis, Data Visualization, Microsoft Excel, LinkedIn Learning, March 09, 2022. ([Link](#))
- '*Statistics Foundations: 2*', Course Length: 1 hour 56 min, Course Completion, Certificate ID: AWyNS2NOTKvLI_KWOK1N_4EKY2vo, LinkedIn Learning, March 08, 2022. ([Link](#))
- '*Managing and Analyzing Data in Excel (Office 365/Excel 2019)*', Course Length: 2 hours 30 min, Course Completion, Certificate ID: Acgwzuc-GULUQedzJKz-3yJkroXT, LinkedIn Learning, March 08, 2022. ([Link](#))
- '*Picking the Right Chart for Your Data*', Course Length: 1 hour 19 min, Course Completion, Certificate ID: AVAH_Y8c7f6EYoLgDRn4yOjiPLa-, LinkedIn Learning, March 09, 2022. ([Link](#))
- '*Develop Your Presentation Skills*', Course Length: 6 hours 1 min, Learning Path Completion, Certificate ID: AW9jP0-WqyRSq82Tk5h0NIX1dpcX, Top Skills Covered: Microsoft PowerPoint, Sales Presentations, Presentations, Presentation Skills, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Public Speaking Foundations*', Course Length: 1 hour 3 min, Course Completion, Certificate ID: AYI4Vb-78f2K_BIX7M6cebAz8Zue, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Establishing Credibility as a Speaker*', Course Length: 32 min, Course Completion, Certificate ID: AT-3OMxdqqAEpJK50kt6ji1vxqKP, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Creating and Giving Business Presentations*', Course Length: 1 hour 16 min, Course Completion, Certificate ID: AcLIG6xuioKTpAYttRzDUwTPK9vT, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*How to Present and Stay on Point*', Course Length: 19 min, Course Completion, Certificate ID: AVZDvtPdiI2Lrj2NbkuE-0Rsiw1m, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Designing a Presentation*', Course Length: 56 min, Course Completion, Certificate ID: ARbgEHKoBShzcmCPMzYjDjTdc6L6, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Design a Compelling Presentation*', Course Length: 51 min, Course Completion, Certificate ID: AXv4wLNSUYM8txZADJApwzpk9GET, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*PowerPoint: Silicon Valley Presentation Secrets*', Course Length: 1 hour 2 min, Course Completion, Certificate ID: Aapzfgjm4I316zcWrclqeKPwHauQ, LinkedIn Learning, March 10, 2022. ([Link](#))
- '*Develop Your SPSS Skills*', Course Length: 17 hours 3 min, Learning Path Completion, Certificate ID: ATExmu-E_05spB3psgSjZ_4Olx1d, Top Skills Covered: Data Analysis, Statistics, IBM SPSS, LinkedIn Learning, April 02, 2022. ([Link](#))
- '*SPSS Statistics Essential Training*', Course Length: 5 hours 49 min, Course Completion, Certificate ID: AWaubzWcUVP_tQPdc2dJDh976Qdj, LinkedIn Learning, April 02, 2022. ([Link](#))

- '*SPSS for Academic Research*', Course Length: 2 hours 42 min, Course Completion, Certificate ID: AXTH7L4GPVe1LGqkOsYJWZLbdm9w, LinkedIn Learning, April 02, 2022. [\(Link\)](#)
- '*Get Ahead In Data Science*', Course Length: 14 hours 12 min, Learning Path Completion, Certificate ID: AW8o15S4TVrB-WB2Maj2_Siq-OKT, Top Skills Covered: Big Data, Data Science, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Data Science Foundations: Data Mining*', Course Length: 4 hours 40 min, Course Completion, Certificate ID: AYN0o89Pv2YYyE08H95VtRMGIcp0, LinkedIn Learning, March 13, 2022. [\(Link\)](#)
- '*Learning Information Governance*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: ASjp8XxUZn-tIP4AVnviDWZ8MfVe, LinkedIn Learning, March 13, 2022. [\(Link\)](#)
- '*Statistics Foundations: 3*', Course Length: 1 hour 41 min, Course Completion, Certificate ID: AfGiVRtRaYPrAmhQV8h3qbUHFxPe, LinkedIn Learning, March 13, 2022. [\(Link\)](#)
- '*Blockchain Basics*', Course Length: 1 hour 6 min, Course Completion, Certificate ID: ARHx6aKFM92wZj1PHj0IFWGck6CO, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Open Data: Unleashing Hidden Value*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: Adg3FeRf5T_EspFCDy3m6HUMx9Fu, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Smarter Cities: Using Data to Drive Urban Innovation*', Course Length: 58 min, Course Completion, Certificate ID: ARJphC0FjU9eOXs_2ApmO6c8ZYSq, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft 365*', Course Length: 17 hours 30 min, Learning Path Completion, Certificate ID: AZoqjQXxqFj1V46iqhS3MMPnBcfS, Top Skills Covered: Microsoft Office, Microsoft PowerPoint, Microsoft Word, Windows, SharePoint, Microsoft Excel, Microsoft Access, Microsoft Outlook, LinkedIn Learning, March 14, 2022. [\(Link\)](#)
- '*Office 365 New Features (Microsoft 365)*', Course Length: 1 hour 44 min, Course Completion, Certificate ID: ASc6DyTF15-ka6Pvdzy5vF5K7k9w, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Learning Word Desktop (Office 365/Microsoft 365) (2018)*', Course Length: 40 min, Course Completion, Certificate ID: ASZ26JMB7vHvaJKzmaPPIQgpBfa_, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Learning Excel Desktop (Office 365/Microsoft 365) (2018)*', Course Length: 1 hour 16 min, Course Completion, Certificate ID: AWYSxUfI0Qq0hfk3NAI1ozsQtPGO, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Learning PowerPoint Desktop (Office 365/Microsoft 365)*', Course Length: 1 hour 11 min, Course Completion, Certificate ID: ATiR8etIC1tljgeWxCXF-yAbpgRK, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Learning Outlook Desktop (Office 365/Microsoft 365)*', Course Length: 42 min, Course Completion, Certificate ID: AY3ROR9-dJzxb03aKQlgbZlryq79, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*OneDrive for Business Essential Training*', Course Length: 1 hour 0 min, Course Completion, Certificate ID: AXlw8A4oybbxpZBSYS5FeOeGNlGD, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- '*SharePoint Online Essential Training: The Basics*', Course Length: 2 hours 1 min, Course Completion, Certificate ID: AYeMFULs3K_15jKGMtTnTOYFpws_, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- '*Microsoft Teams Essential Training*', Course Length: 2 hours 21 min, Course Completion, Certificate ID: AUIMLK7_cF-ZLlf1ObZi-HDhUywG, LinkedIn Learning, February 20, 2022. [\(Link\)](#)

- '*Microsoft Planner Essential Training*', Course Length: 1 hour 27 min, Course Completion, Certificate ID: AZ392ldcplO_n5g8uCjSo7nkN46, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- '*Learning OneNote for the web (Office 365/Microsoft 365)*', Course Length: 1 hour 39 min, Course Completion, Certificate ID: AT1cArwShQzeUYxyAjicPMKzIXM, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- '*Windows 10 Essential Training*', Course Length: 3 hours 25 min, Course Completion, Certificate ID: ASSIZZokzpbLHyNcf4hEoXSStQ6_, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft Outlook*', Course Length: 2 hours 47 min, Learning Path Completion, Certificate ID: ASfSBVT0BPRFFCpazdnnP8FJOc-C, Top Skills Covered: Office 365, Email, Microsoft Outlook, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*Outlook Essential Training (Office 365/Microsoft 365)*', Course Length: 2 hours 13 min, Course Completion, Certificate ID: AVolf9Hm3ob8ow3ZvXMY2fpXxvM, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Outlook Quick Tips*', Course Length: 33 min, Course Completion, Certificate ID: AVqT73qb7KWL5lfaUMmKKN38pcaE, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft PowerPoint*', Course Length: 5 hours 55 min, Learning Path Completion, Certificate ID: AULoDijmVAYV0G0tlt5y2-l1UUub, Top Skills Covered: Microsoft PowerPoint, Office 365, Presentations, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*PowerPoint Essential Training (Office 365/Microsoft 365)*', Course Length: 2 hours 37 min, Course Completion, Certificate ID: AWe6QtpJfmp8GLOb8AhBtdBT4-R, LinkedIn Learning, February 22, 2022. [\(Link\)](#)
- '*PowerPoint: Designing Better Slides*', Course Length: 1 hour 33 min, Course Completion, Certificate ID: ARFcpdHaZBpfdzHpdmjWUy_RzJTk, LinkedIn Learning, February 22, 2022. [\(Link\)](#)
- '*PowerPoint Quick Tips*', Course Length: 32 min, Course Completion, Certificate ID: AVYML2Wq4saiocJ-_5vqPEY6d-ov, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft OneNote*', Course Length: 5 hours 32 min, Learning Path Completion, Certificate ID: AUJIE4fEiM-JtB3Uq1VzrPuZ2CwU, Top Skills Covered: Office 365, OneNote, Note Taking, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*OneNote 2016 Essential Training*', Course Length: 1 hour 49 min, Course Completion, Certificate ID: AVHS99KUcllr8ryZbYfntcbqoZK1, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*OneNote Tips and Tricks (2017)*', Course Length: 2 hours 3 min, Course Completion, Certificate ID: AXxrlqP6V19jYn1-873y-vxyozlp, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft Word*', Course Length: 3 hours 23 min, Learning Path Completion, Certificate ID: AZYQXiW-stv2ljsjkzFCDXymG83, Top Skills Covered: Microsoft Office, Microsoft Word, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Word Essential Training (Office 365/Microsoft 365)*', Course Length: 2 hours 10 min, Course Completion, Certificate ID: ASFvMsWXQ9Wy87ckgYQFTlylGc-S, LinkedIn Learning, February 19, 2022. [\(Link\)](#)
- '*Word Quick Tips*', Course Length: 31 min, Course Completion, Certificate ID: ATnZ106npBs8KxNZAekNT_0iJbwf, LinkedIn Learning, April 03, 2022. [\(Link\)](#)

- *'Master Microsoft OneNote'*, Course Length: 5 hours 17 min, Learning Path Completion, Certificate ID: AYQJu_UpKuBPMgZqF1IKH_mRWG6Q, Top Skills Covered: Microsoft Office, OneNote, Note Taking, LinkedIn Learning, April 03, 2022. ([Link](#))
- *'OneNote for Windows 10 Essential Training'*, Course Length: 1 hour 23 min, Course Completion, Certificate ID: AT0E3VxKA5GJ58WOQbGqNbaCXRIO, LinkedIn Learning, April 03, 2022. ([Link](#))
- *'Improve Your Architectural Visualization Skills with Unreal'*, Course Length: 6 hours 10 min, Learning Path Completion, Certificate ID: AYL4QPu3yF-NfazYu6-5IZvmwR53, Top Skills Covered: 3D Visualization, Unreal Engine, 3D Architectural Rendering, Architectural Modeling, LinkedIn Learning, February 17, 2022. ([Link](#))
- *'Revit to Unreal for Architecture, Visualization, and VR'*, Course Length: 1 hour 37 min, Course Completion, Certificate ID: AUxAY-uROE6sA6ehKUgOzG18lhVH, LinkedIn Learning, February 16, 2022. ([Link](#))
- *'Unreal Engine: ArchViz Design Techniques'*, Course Length: 52 min, Course Completion, Certificate ID: AYHg6ygxOfWuGoLHXGahIR6fuHKS, LinkedIn Learning, February 17, 2022. ([Link](#))
- *'Unreal: Substance Designer Workflow'*, Course Length: 2 hours 5 min, Course Completion, Certificate ID: ASTstVbEo2hEkEMAbtkVcnkuYla_, LinkedIn Learning, February 17, 2022. ([Link](#))
- *'Unreal Engine: Materials for Architectural Visualization'*, Course Length: 1 hour 34 min, Course Completion, Certificate ID: AeXqYnDp78MQLRRCBAs51nFsvet8, LinkedIn Learning, February 17, 2022. ([Link](#))
- *'Improve Your Microsoft Excel Skills'*, Course Length: 18 hours 6 min, Learning Path Completion, Certificate ID: AQhFhqWSXOovo-ocMNLNzx7zQ6BT, Top Skills Covered: Microsoft Office, Data Analysis, Data Visualization, Spreadsheets, Microsoft Excel, LinkedIn Learning, March 13, 2022. ([Link](#))
- *'Excel 2016: Advanced Formulas and Functions'*, Course Length: 6 hours 18 min, Course Completion, Certificate ID: AbWIY-fwrZENC7dIL3HNFVB_OoOu, LinkedIn Learning, March 12, 2022. ([Link](#))
- *'Excel 2016: Charts in Depth'*, Course Length: 4 hours 36 min, Course Completion, Certificate ID: AU_Old427f6RkQehpkKGIpylsbK0, LinkedIn Learning, March 12, 2022. ([Link](#))
- *'Excel 2016: Pivot Tables in Depth'*, Course Length: 3 hours 42 min, Course Completion, Certificate ID: AbCyaMjshJ8_khc91HCkLbgx09oi, LinkedIn Learning, March 12, 2022. ([Link](#))
- *'Excel 2016: Advanced Formatting Techniques'*, Course Length: 3 hours 29 min, Course Completion, Certificate ID: AYacrWwcGDWi5AtKxOmbC0seHrxg, LinkedIn Learning, March 13, 2022. ([Link](#))
- *'Improve Your Microsoft Word Skills'*, Course Length: 5 hours 34 min, Learning Path Completion, Certificate ID: AVGjulXH6tSy9zQPZhZaYQZHRyeh, Top Skills Covered: Word Processing, Microsoft Word, LinkedIn Learning, March 01, 2022. ([Link](#))
- *'Word 2016: Advanced Tips and Tricks'*, Course Length: 1 hour 41 min, Course Completion, Certificate ID: Aaipd3Skb3SxYziq9N-oiE2IZq4j, LinkedIn Learning, February 19, 2022. ([Link](#))
- *'Word 2016: Mail Merge in Depth'*, Course Length: 2 hours 20 min, Course Completion, Certificate ID: AcOLTjVboEgZKGTpuTS7SwTJLc7Y, LinkedIn Learning, February 19, 2022. ([Link](#))
- *'Word 2016: Forms in Depth'*, Course Length: 1 hour 32 min, Course Completion, Certificate ID: AdZmtR5yvqhAKI0ZUwH8SmuO5Z1s, LinkedIn Learning, February 19, 2022. ([Link](#))

- *'Improve Your SketchUp Skills'*, Course Length: 24 hours 16 min, Learning Path Completion, Certificate ID: AcZxIYIHqovzDkrRPFAO_baNtqFR, Top Skills Covered: Architectural Design, Interior Design, SketchUp, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp 2019 Essential Training'*, Course Length: 2 hours 20 min, Course Completion, Certificate ID: ARIOTkj7oZth8mSaexcBGvDW7mNy, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp for Architecture'*, Course Length: 5 hours 36 min, Course Completion, Certificate ID: AfwxyclgBpYvqwhpXPSZM-n96-M, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp Pro: Modeling a Lamp'*, Course Length: 3 hours 21 min, Course Completion, Certificate ID: ASWq-sJOK0NRAcjsv8UPCeIEkGiE, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp Pro: Dynamic Components'*, Course Length: 3 hours 13 min, Course Completion, Certificate ID: AUzIzHy0XWUB0DtX0dIpzN3H5gyo, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp: Rendering with V-Ray 3'*, Course Length: 4 hours 56 min, Course Completion, Certificate ID: AWtuO-KN_abbo87nh7eyZFtOdDud, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'SketchUp 2020 Essential Training'*, Course Length: 2 hours 26 min, Course Completion, Certificate ID: Ae9UT4oeeYZ1zbClfxwoz-Nz-Xx, LinkedIn Learning, February 11, 2022. [\(Link\)](#)
- *'Master Excel for Data Science'*, Course Length: 13 hours 20 min, Learning Path Completion, Certificate ID: AVtNsY3ODYC2cid1fiPvJkPGfJYn, Top Skills Covered: Data Analysis, Business Intelligence (BI), Statistics, Microsoft Excel, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- *'Excel for Business Analysts'*, Course Length: 1 hour 59 min, Course Completion, Certificate ID: AXwWse_VRR4049OKpEVn1NkuffwT, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- *'Excel: Tracking Data Easily and Efficiently'*, Course Length: 1 hour 29 min, Course Completion, Certificate ID: ASehdorpH3Q3SW8IF_xX4UhfEUBQ, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- *'Excel: Filtering Data for Beginners'*, Course Length: 29 min, Course Completion, Certificate ID: AaIQ8KVJ0Ue1hfdBd_fKFFbduAuz, LinkedIn Learning, March 03, 2022. [\(Link\)](#)
- *'Excel: Power Query for Beginners'*, Course Length: 24 min, Course Completion, Certificate ID: AZr_sjqLxOYrxRk1xPDU3Yo_ZOU, LinkedIn Learning, March 04, 2022. [\(Link\)](#)
- *'Excel: Charts in Depth'*, Course Length: 2 hours 36 min, Course Completion, Certificate ID: AS3fbWeuBkPI1MATIsEW3JN4PEqI, LinkedIn Learning, February 21, 2022. [\(Link\)](#)
- *'Master Microsoft Excel'*, Course Length: 25 hours 7 min, Learning Path Completion, Certificate ID: AasQR9SYPgEK2N8IQLlvqV-vtnly, Top Skills Covered: Spreadsheets, Microsoft Excel, LinkedIn Learning, February 22, 2022. [\(Link\)](#)
- *'Excel Essential Training (Office 365/Microsoft 365)'*, Course Length: 2 hours 17 min, Course Completion, Certificate ID: AYRzEQPdiTfpynVrFgWpd-qttM0f, LinkedIn Learning, February 20, 2022. [\(Link\)](#)
- *'Excel: Advanced Formulas and Functions'*, Course Length: 4 hours 46 min, Course Completion, Certificate ID: AYuvG-z2rIDPSYtZP0UA1EmU_5u, LinkedIn Learning, February 21, 2022. [\(Link\)](#)
- *'Excel: Advanced Formatting Techniques (365/2019)'*, Course Length: 1 hour 46 min, Course Completion, Certificate ID: AX9w_RfGC3Yc9rBtJrfpGQXJ9n8d, LinkedIn Learning, February 21, 2022. [\(Link\)](#)

- *'Excel: Creating a Basic Dashboard (2017)'*, Course Length: 1 hour 31 min, Course Completion, Certificate ID: Aay8Bgtfh3Fy3vscrlPlFnonNBfk, LinkedIn Learning, February 21, 2022. ([Link](#))
- *'Excel: PivotTables in Depth'*, Course Length: 3 hours 50 min, Course Completion, Certificate ID: Aco3_jLlv_v-vZ-6367rrrHJIEwd, LinkedIn Learning, February 22, 2022. ([Link](#))
- *'Cert Prep: Excel Associate - Microsoft Office Specialist for Office 2019 and Office 365'*, Course Length: 3 hours 34 min, Course Completion, Certificate ID: AUesJk2wjTzugWz5stZilvsC2tva, LinkedIn Learning, February 22, 2022. ([Link](#))
- *'Cert Prep: Excel Expert - Microsoft Office Specialist for Office 2019 and Office 365'*, Course Length: 4 hours 43 min, Course Completion, Certificate ID: Adg6HV7MnD6C8Q0i349Tq7xt4EeL, LinkedIn Learning, February 22, 2022. ([Link](#))
- *'Master Microsoft PowerPoint'*, Course Length: 11 hours 53 min, Learning Path Completion, Certificate ID: Ae5awknSSTevzJiCZqvvajagClPm, Top Skills Covered: Microsoft PowerPoint, Presentations, LinkedIn Learning, February 22, 2022. ([Link](#))
- *'PowerPoint Tips and Tricks'*, Course Length: 1 hour 53 min, Course Completion, Certificate ID: AeKm3quiMrjqnkOeV59bBf-1RPyZ, LinkedIn Learning, February 23, 2022. ([Link](#))
- *'PowerPoint: Audio and Video'*, Course Length: 2 hours 3 min, Course Completion, Certificate ID: AUryLOmpIBKtHGfxp6IFP0rF6aH1, LinkedIn Learning, February 23, 2022. ([Link](#))
- *'Cert Prep: PowerPoint Associate - Microsoft Office Specialist for Office 2019 and Office 365'*, Course Length: 3 hours 45 min, Course Completion, Certificate ID: Aduy6RvQKh-3eUPBTN4cq9nqAAX3, LinkedIn Learning, February 23, 2022. ([Link](#))
- *'Master Microsoft Word'*, Course Length: 13 hours 46 min, Learning Path Completion, Certificate ID: Af8Y8mEyqMbZYiPnAIWa9Tr1WZEz, Top Skills Covered: Word Processing, Microsoft Word, LinkedIn Learning, February 20, 2022. ([Link](#))
- *'Cert Prep: Word 2016 Microsoft Office Specialist (77-725)'*, Course Length: 3 hours 48 min, Course Completion, Certificate ID: AQQoQF8tornj72TNqqgWQ_4cZd8L, LinkedIn Learning, February 20, 2022. ([Link](#))
- *'Cert Prep: Word 2016 Microsoft Office Expert (77-726)'*, Course Length: 2 hours 13 min, Course Completion, Certificate ID: AUScKZQT665qdS9O2d12AFtN4ulp, LinkedIn Learning, February 20, 2022. ([Link](#))
- *'Master Python for Data Science'*, Course Length: 11 hours 10 min, Learning Path Completion, Certificate ID: AcAd1HE1Soac2BxPnFyuiwA-06aU, Top Skills Covered: Data Analysis, Data Modeling, LinkedIn Learning, February 28, 2022. ([Link](#))
- *'Advanced Python: Working with Databases'*, Course Length: 4 hours 51 min, Course Completion, Certificate ID: Aa4M6tgjtJIEBuHWzkodF-RNvuDr, LinkedIn Learning, February 27, 2022. ([Link](#))
- *'Python Data Structures: Stacks, Queues, and Deques'*, Course Length: 1 hour 24 min, Course Completion, Certificate ID: AciVpbkr1e8ypx09y741SavuASih, LinkedIn Learning, February 27, 2022. ([Link](#))
- *'Python Data Structures: Linked Lists'*, Course Length: 1 hour 30 min, Course Completion, Certificate ID: AYPHkiB4exRvaV-4188iejPMisVM, LinkedIn Learning, February 27, 2022. ([Link](#))
- *'Python Data Structures: Dictionaries'*, Course Length: 57 min, Course Completion, Certificate ID: AbskYPNilw5BDRfhc8ovsO63W3hv, LinkedIn Learning, February 27, 2022. ([Link](#))

- '*Faster Pandas*', Course Length: 1 hour 24 min, Course Completion, Certificate ID: AV8cnz_JC28ZFIETd-xkdE2Vtoq6, LinkedIn Learning, February 28, 2022. ([Link](#))
- '*Advanced Pandas*', Course Length: 1 hour 2 min, Course Completion, Certificate ID: AZI24fikLDJuNnE-MjKJ61VBliK4, LinkedIn Learning, February 28, 2022. ([Link](#))
- '*Master R for Data Science*', Course Length: 19 hours 46 min, Learning Path Completion, Certificate ID: AZYDNK2bolbBFZBNUMdEWVSpPCy4, Top Skills Covered: R (Programming Language), Data Analysis, LinkedIn Learning, March 22, 2022. ([Link](#))
- '*Learning R*', Course Length: 2 hours 51 min, Course Completion, Certificate ID: AUPeud1NTKZVmUb7stkM-PmXtW0Q, LinkedIn Learning, March 19, 2022. ([Link](#))
- '*Code Clinic: R*', Course Length: 1 hour 18 min, Course Completion, Certificate ID: AaRWg3UwDm39RTMpUbdagI9FoAo, LinkedIn Learning, March 21, 2022. ([Link](#))
- '*Data Wrangling in R (2017)*', Course Length: 4 hours 12 min, Course Completion, Certificate ID: Aa2JIYPXV9vJ2bsInIXVapwNMVlg, LinkedIn Learning, March 15, 2022. ([Link](#))
- '*Social Network Analysis Using R*', Course Length: 1 hour 6 min, Course Completion, Certificate ID: AX5J5i5CVdqxL-HaHRZ6V10s6Yd4, LinkedIn Learning, March 21, 2022. ([Link](#))
- '*R Programming in Data Science: Setup and Start*', Course Length: 1 hour 42 min, Course Completion, Certificate ID: AcZyOO9I8HD3g6Jxy4T6qww3xY0e, LinkedIn Learning, March 21, 2022. ([Link](#))
- '*Integrating Tableau and R for Data Sciencet*', Course Length: 1 hour 10 min, Course Completion, Certificate ID: AVY5gCM4gtwjgOmRlbttdYhzj5vv, LinkedIn Learning, March 21, 2022. ([Link](#))
- '*R for Excel Users*', Course Length: 1 hour 26 min, Course Completion, Certificate ID: AWQ4U42FGxwh_F8PKMuknxqnMO7l, LinkedIn Learning, March 22, 2022. ([Link](#))
- '*Logistic Regression in R and Excel*', Course Length: 1 hour 37 min, Course Completion, Certificate ID: Aclu42v2UAIgG8x-J88IWCDwhR8k, LinkedIn Learning, March 22, 2022. ([Link](#))
- '*Master the Fundamentals of AI and Machine Learning*', Course Length: 14 hours 5 min, Learning Path Completion, Certificate ID: Aa0nMq_bF4t1nvkzfzOeluzT62AE, Top Skills Covered: Neural Networks, Machine Learning, Artificial Intelligence (AI), LinkedIn Learning, March 02, 2022. ([Link](#))
- '*AI Accountability Essential Training*', Course Length: 2 hours 21 min, Course Completion, Certificate ID: Acnxpn5Dr8idGYPEGxIDXzk6gRv4, LinkedIn Learning, February 28, 2022. ([Link](#))
- '*Artificial Intelligence Foundations: Neural Networks*', Course Length: 1 hour 16 min, Course Completion, Certificate ID: ATJZHrAH72OKISYaPVM4MBhtQYY_, LinkedIn Learning, March 01, 2022. ([Link](#))
- '*Cognitive Technologies: The Real Opportunities for Business*', Course Length: 1 hour 52 min, Course Completion, Certificate ID: AaOsTmetnFanK_3ddyZz-RyFzFLm, LinkedIn Learning, March 01, 2022. ([Link](#))
- '*AI Algorithms for Gaming*', Course Length: 2 hours 5 min, Course Completion, Certificate ID: AYrqf-MhmO3YE4up1qBbRSxTEFjY, LinkedIn Learning, March 02, 2022. ([Link](#))
- '*AI The LinkedIn Way: A Conversation with Deepak Agarwal*', Course Length: 31 min, Course Completion, Certificate ID: Aavd96Gu2e6SoGzTC7ws_2qs6PT, LinkedIn Learning, March 02, 2022. ([Link](#))

- '*Artificial Intelligence for Project Managers*', Course Length: 41 min, Course Completion, Certificate ID: AYhHskllzysaTVaResYlBqv2rBs5, LinkedIn Learning, March 02, 2022. [\(Link\)](#)
- '*Learning XAI: Explainable Artificial Intelligence*', Course Length: 1 hour 14 min, Course Completion, Certificate ID: AXrCZPx16mTPM3gzo0P3uk8k5T13, LinkedIn Learning, March 02, 2022. [\(Link\)](#)
- '*Artificial Intelligence for Cybersecurity*', Course Length: 1 hour 15 min, Course Completion, Certificate ID: AYdeJa1CqZewcB0UGKNT2_ViMP-f, LinkedIn Learning, March 02, 2022. [\(Link\)](#)
- '*Master Your Python Skills*', Course Length: 10 hours 41 min, Learning Path Completion, Certificate ID: AZUK3scErs-iz_Occafnxp-f2Z2H, Top Skills Covered: Python (Programming Language), LinkedIn Learning, March 28, 2022. [\(Link\)](#)
- '*Unit Testing in Python*', Course Length: 1 hour 29 min, Course Completion, Certificate ID: AfBV7f-oCmcV1l-QVd_6ebwh5Eng, LinkedIn Learning, March 28, 2022. [\(Link\)](#)
- '*Python: Working with Predictive Analytics*', Course Length: 1 hour 22 min, Course Completion, Certificate ID: AQ8ntf9gHShO-XdjH3xxz9bFnMoR, LinkedIn Learning, March 28, 2022. [\(Link\)](#)
- '*Advanced Core Python Code Challenges*', Course Length: 30 min, Course Completion, Certificate ID: AWb8kfdMnlpQbkmwaJEIzps74U9u, LinkedIn Learning, March 28, 2022. [\(Link\)](#)
- '*Master Microsoft Outlook*', Course Length: 10 hours 6 min, Learning Path Completion, Certificate ID: ASTewdxwVXqbdkBEG_R3W-GeKEB8, Top Skills Covered: Microsoft Outlook, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Outlook: Time Management with Calendar and Tasks*', Course Length: 1 hour 1 min, Course Completion, Certificate ID: AfODE9DFzdV35DNPXhSSgkveWzat, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Outlook: Time Management with Calendar and Tasks*', Course Length: 1 hour 55 min, Course Completion, Certificate ID: AZpOfjX9E15uYv6JwAgZokVYM4PS, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Outlook: Tips and Tricks*', Course Length: 2 hours 24 min, Course Completion, Certificate ID: AYGncxgsFvpQ-pQbxBp5gV0r5K0I, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Cert Prep: Outlook Associate - Microsoft Office Specialist for Office 2019 and Office 365*', Course Length: 2 hours 29 min, Course Completion, Certificate ID: AVZYQaBynQT8ilkoWh1ngaBebyRf, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Getting Started with Microsoft Excel*', Course Length: 7 hours 25 min, Learning Path Completion, Certificate ID: AdtwYlfzVlzaAjfQLGHdIXbn_bM, Top Skills Covered: Microsoft Office, Microsoft Excel, LinkedIn Learning, April 05, 2022. [\(Link\)](#)
- '*Excel: PivotTables for Beginners*', Course Length: 23 min, Course Completion, Certificate ID: AYPf2rZdGbxxkEw8d_xe7i9U0cdb, LinkedIn Learning, April 03, 2022. [\(Link\)](#)
- '*Excel: Introduction to Formulas and Functions*', Course Length: 2 hours 38 min, Course Completion, Certificate ID: AYbRAjqkqiOQRVViRaAnRkYVo8x, LinkedIn Learning, April 05, 2022. [\(Link\)](#)
- '*Excel Quick Tips*', Course Length: 48 min, Course Completion, Certificate ID: AS_gRn9h21IEyUHTztV5UOY9deul, LinkedIn Learning, April 05, 2022. [\(Link\)](#)
- '*Mastering ExecutiveLevel Data Analytics*', Course Length: 12 hours 27 min, Learning Path Completion, Certificate ID: AayawrMQ9Tuq9n9XSz97cRd6QEgG, Top Skills Covered: Data Analytics, Data Science, LinkedIn Learning, April 02, 2022. [\(Link\)](#)

- '*Predictive Analytics Essential Training for Executives*', Course Length: 1 hour 20 min, Course Completion, Certificate ID: AZx31whKnTk62iPi3fEkiall7W-D, LinkedIn Learning, March 31, 2022. ([Link](#))
- '*Artificial Intelligence for Business Leaders*', Course Length: 1 hour 33 min, Course Completion, Certificate ID: AXdq8mLPZUhfukRdja5c87BuAvCf, LinkedIn Learning, April 01, 2022. ([Link](#))
- '*AI in Business Essential Training*', Course Length: 1 hour 25 min, Course Completion, Certificate ID: AdusR6rN4_3sGO3qMF1v_7Axom8I, LinkedIn Learning, April 01, 2022. ([Link](#))
- '*Introducing AI to Your Organization*', Course Length: 53 min, Course Completion, Certificate ID: AYA8WKKivtHuuKldq4AkMjGraGXc, LinkedIn Learning, April 02, 2022. ([Link](#))
- '*Prepare for the Certified Analytics Professional CAP Exam*', Course Length: 2 hours 36 min, Learning Path Completion, Certificate ID: Aak89GerMuANkAtEJxjwc22QwhMI, Top Skills Covered: Data Analysis, LinkedIn Learning, April 02, 2022. ([Link](#))
- '*Starting Your Career in Tech Data Science*', Course Length: 10 hours 56 min, Learning Path Completion, Certificate ID: AcPN_p4Lqv7qnWN3yuUPRRi5Fbv-, Top Skills Covered: Career Management, Data Science, LinkedIn Learning, March 29, 2022. ([Link](#))
- '*Inside the Mind of an Aspiring Data Scientist*', Course Length: 22 min, Course Completion, Certificate ID: ARgGxyM6Jvq6TiyijozP9BR_wNi3, LinkedIn Learning, March 28, 2022. ([Link](#))
- '*Introduction to Data Science*', Course Length: 1 hour 48 min, Course Completion, Certificate ID: AZJqmcHarEII1QMWJ2_PddR7OUKV, LinkedIn Learning, March 28, 2022. ([Link](#))
- '*Data Science Foundations: Fundamentals (2019)*', Course Length: 5 hours 17 min, Course Completion, Certificate ID: AX5WDGdJowYSpiKeYS1sK_OjP4me, LinkedIn Learning, March 31, 2022. ([Link](#))
- '*Tech Career Skills: Effective Technical Communication*', Course Length: 1 hour 0 min, Course Completion, Certificate ID: AWgNkHj405Bv3aQE2GGvBzo-xyE-, LinkedIn Learning, March 28, 2022. ([Link](#))
- '*15 Tips for Landing a Data Science Job*', Course Length: 33 min, Course Completion, Certificate ID: ATEmwwyXilRw80J5gQ9DkDT5bx2F, LinkedIn Learning, March 28, 2022. ([Link](#))
- '*Get a Remote Data Science Job*', Course Length: 29 min, Course Completion, Certificate ID: Adda4_aXzBQh0v5-Tr5F0wmWW3eC, LinkedIn Learning, March 29, 2022. ([Link](#))
- '*Future Proofing Your Data Science Career*', Course Length: 1 hour 4 min, Course Completion, Certificate ID: AVpCe3nWjSE1KmOVIsx-MvUs01cQ, LinkedIn Learning, March 29, 2022. ([Link](#))
- '*Stay Ahead in Architecture with Algorithmic Design*', Course Length: 21 hours 49 min, Learning Path Completion, Certificate ID: AbjknznZBE6W_qRQASz5VIJ_a4CT, Top Skills Covered: Algorithm Design, Building Information Modeling (BIM), Revit, Architecture, Architectural Design, Rhino, LinkedIn Learning, February 14, 2022. ([Link](#))
- '*Learning Grasshopper*', Course Length: 4 hours 16 min, Course Completion, Certificate ID: AdUANQmvjHGJYkqsJUI1VUK6ZRSd, LinkedIn Learning, February 13, 2022. ([Link](#))
- '*Learning Algorithmic Design with Grasshopper*', Course Length: 3 hours 14 min, Course Completion, Certificate ID: ATzXrOuMr2uqAtVxx_GFhTmAjWhK, LinkedIn Learning, February 13, 2022. ([Link](#))
- '*Grasshopper: Generative Design for Architecture*', Course Length: 3 hours 14 min, Course Completion, Certificate ID: AWuKpf0v2cndPne1SknVd14VvHnK, LinkedIn Learning, February 13, 2022. ([Link](#))

- '*Dynamo 2.x Essential Training*', Course Length: 4 hours 34 min, Course Completion, Certificate ID: Ad0ItAXCjpl3QS7tpqmVXCcBwKf3, LinkedIn Learning, February 14, 2022. ([Link](#))
- '*Introduction to Dynamo for Revit*', Course Length: 2 hours 51 min, Course Completion, Certificate ID: AYzM2ED1D2UVP5PTw6sMmJ5JYMRD, LinkedIn Learning, February 14, 2022. ([Link](#))
- '*Dynamo for Revit: Python Scripting*', Course Length: 3 hours 36 min, Course Completion, Certificate ID: AeHpVXBMDp-X_u5ne6evRpXGMycW, LinkedIn Learning, February 14, 2022. ([Link](#))
- '*Stay Ahead in Sustainability and Green Building*', Course Length: 10 hours 36 min, Learning Path Completion, Certificate ID: AXB4UXBsI9gITpnlP1oUzRJOscYG, Top Skills Covered: Leadership in Energy and Environmental Design (LEED), Sustainability, Green Building, Architectural Design, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Navigating Environmental Sustainability: A Guide for Leaders*', Course Length: 16 min, Course Completion, Certificate ID: ATi5RpiKsUvGXuqQzqFTSEgkjpj, LinkedIn Learning, February 23, 2022. ([Link](#))
- '*Closing the Green Skills Gap to Power a Greener Economy and Drive Sustainability*', Course Length: 23 min, Course Completion, Certificate ID: Adf91LmwgOE4s2QUjBQJPE4-ExiB, LinkedIn Learning, April 06, 2022. ([Link](#))
- '*Green Building Concepts Foundations*', Course Length: 1 hour 33 min, Course Completion, Certificate ID: ARmd_DfqJUs7QbCHWnDOTSTSy_4V, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Introduction to LEED Certification*', Course Length: 1 hour 13 min, Course Completion, Certificate ID: AfTjKqoEqXLmYttUwrCfRoLG6rjz, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Introduction to LEED Credentialing*', Course Length: 38 min, Course Completion, Certificate ID: AVxocBcxcb3_3lHssbjkeLElB, LinkedIn Learning, February 23, 2022. ([Link](#))
- '*Cert Prep: LEED Green Associate*', Course Length: 2 hours 15 min, Course Completion, Certificate ID: AY5vW_vJmoJz9OUKceMdH6JL9ND9, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Michelle Kaufmann's Platinum LEED Home Remodel: Start to Finish*', Course Length: 13 min, Course Completion, Certificate ID: AV3Ka5k60yHUUXJUKTnOy-p0Mn4V, LinkedIn Learning, February 23, 2022. ([Link](#))
- '*Learning Design for Sustainability*', Course Length: 1 hour 38 min, Course Completion, Certificate ID: AdqR2Z78Z6pp9KPIX06DqodvnyYJ, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Fundamentals of Sustainable Supply Chains*', Course Length: 58 min, Course Completion, Certificate ID: Aee77PKBdOA54EaqtnlXoLENveJv, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Sustainability Strategies*', Course Length: 56 min, Course Completion, Certificate ID: Aa0Hs_zWejN8ZYxTADrD3TefGN8a, LinkedIn Learning, February 24, 2022. ([Link](#))
- '*Working Smarter with Microsoft 365*', Course Length: 23 hours 45 min, Learning Path Completion, Certificate ID: AUSmbRHEaHHZ5-WglSj1oDwbGyrT, Top Skills Covered: Microsoft Office, Microsoft PowerPoint, Microsoft Word, Windows, Microsoft Excel, LinkedIn Learning, February 23, 2022. ([Link](#))
- '*Office 365 New Features (Microsoft 365)*', Course Length: 1 hour 44 min, Course Completion, Certificate ID: ASc6DyTF15-ka6Pvdzy5vF5K7k9w, LinkedIn Learning, February 19, 2022. ([Link](#))
- '*SharePoint Online Essential Training: Beyond the Basics*', Course Length: 2 hours 9 min, Course Completion, Certificate ID: ARC_YT2zrw7ur-lbGgQX9Xzhw3Jm, LinkedIn Learning, February 23, 2022. ([Link](#))

- '*OneNote for Windows 10 Essential Training (2019)*', Course Length: 1 hour 23 min, Course Completion, Certificate ID: AQ24jz8S-cC-NM34bAK9-ae1HU-G, LinkedIn Learning, February 23, 2022. [\(Link\)](#)
- '*Access Essential Training (Office 365/Microsoft)*', Course Length: 3 hours 51 min, Course Completion, Certificate ID: AWwcUePXETjt-5PtI2lDmbgtXr4u, LinkedIn Learning, February 23, 2022. [\(Link\)](#)
- '*Windows 10 May 2019 Update New Features*', Course Length: 29 min, Course Completion, Certificate ID: Ab_-KJ6KW3s6WCDIOar3Jdsvfna7, LinkedIn Learning, February 23, 2022. [\(Link\)](#)
- '*Advance Your Python Skills for Data Science*', Course Length: 16 hours 39 min, Learning Path Completion, Certificate ID: Ad8j_HICbNrmNwSr5pFDH1uC1O_8, Top Skills Covered: Big Data, Python (Programming Language), Object-Oriented Programming (OOP), LinkedIn Learning, February 16, 2022. [\(Link\)](#)
- '*Python for Data Science Essential Training Part 1*', Course Length: 6 hours 2 min, Course Completion, Certificate ID: AcZN4ZBxBh2JbxTxAajex8ry4UDq, LinkedIn Learning, February 15, 2022. [\(Link\)](#)
- '*Python for Data Science Essential Training Part 2*', Course Length: 3 hours 44 min, Course Completion, Certificate ID: AXRIo3OBp5E5Kwz8bxF6ztO9RJsg, LinkedIn Learning, February 15, 2022. [\(Link\)](#)
- '*Data Science Foundations: Python Scientific Stack (2017)*', Course Length: 3 hours 34 min, Course Completion, Certificate ID: AeGc9VcZHPWv7v-IR_FS9AVxBiHw, LinkedIn Learning, February 15, 2022. [\(Link\)](#)
- '*Python Data Analysis*', Course Length: 2 hours 30 min, Course Completion, Certificate ID: AS4xGSW-PeAVw8m1tZSpJoFPI0F, LinkedIn Learning, February 16, 2022. [\(Link\)](#)
- '*Python for Data Science Tips, Tricks, & Techniques*', Course Length: 47 min, Course Completion, Certificate ID: Advle5jVanuupUW4XODiWfvwrc9c, LinkedIn Learning, February 16, 2022. [\(Link\)](#)
- '*Become a Data Visualization Specialist Tools*', Course Length: 31 hours 26 min, Learning Path Completion, Certificate ID: AbKO2LFBmSkNoQXSAInEpQI_DUYI, Top Skills Covered: Data Visualization, LinkedIn Learning, April 06, 2022. [\(Link\)](#)
- '*Tableau 10 for Data Scientists (2017)*', Course Length: 2 hours 24 min, Course Completion, Certificate ID: AaVOzT8pL-qswEu3OhUCOJW8GEI9, LinkedIn Learning, April 06, 2022. [\(Link\)](#)
- '*Creating Interactive Tableau Dashboards*', Course Length: 3 hours 28 min, Course Completion, Certificate ID: AY8HVgEnGMolemdo4OB2Nr1TTJXz, LinkedIn Learning, April 06, 2022. [\(Link\)](#)
- '*Learning Data Visualization with D3.js*', Course Length: 2 hours 5 min, Course Completion, Certificate ID: AQELWYee2dH2BeUbObiFckbkSDyc, LinkedIn Learning, April 06, 2022. [\(Link\)](#)
- '*D3.js Essential Training for Data Scientists*', Course Length: 4 hours 38 min, Course Completion, Certificate ID: AQVD2F6Ms6_gTVFj2dnnSwG4fHjx, LinkedIn Learning, April 04, 2022. [\(Link\)](#)
- '*DC.js for Data Science Essential Training*', Course Length: 5 hours 3 min, Course Completion, Certificate ID: AZZe1IOsHwVb1q-Fxt6dS6BiFRRU, LinkedIn Learning, April 05, 2022. [\(Link\)](#)
- '*Creating Interactive Presentations with Shiny and R*', Course Length: 1 hour 53 min, Course Completion, Certificate ID: AWJtYVSCaPxxTVjr8ASBZtwb00rg, LinkedIn Learning, April 06, 2022. [\(Link\)](#)
- '*Processing: Interactive Data Visualization*', Course Length: 7 hours 43 min, Course Completion, Certificate ID: AfAOHby-D_PiFR_gtL3cdWAq7Rah, LinkedIn Learning, April 04, 2022. [\(Link\)](#)

- *'Advance Your Skills in Predictive Analytics'*, Course Length: 11 hours 27 min, Learning Path Completion, Certificate ID: AdRLiGSqaF1iA6dtPnRB1X8Z0a65, Top Skills Covered: Business Analytics, Big Data, Predictive Modeling, Machine Learning, Financial Forecasting, Data Mining, Google Cloud Platform (GCP), Artificial Intelligence (AI), Amazon Web Services (AWS), and 1 more, LinkedIn Learning, April 07, 2022. ([Link](#))
- *'Machine Learning and AI Foundations: Predictive Modeling Strategy at Scale'*, Course Length: 1 hour 21 min, Course Completion, Certificate ID: AamdNWk9IgA4PeSahwuSeOgSdR2C, LinkedIn Learning, April 02, 2022. ([Link](#))
- *'Data Science on Google Cloud Platform: Exploratory Data Analytics'*, Course Length: 57 min, Course Completion, Certificate ID: ARCg9mrGkpXJnzdvntZnJOAVKEja, LinkedIn Learning, April 02, 2022. ([Link](#))
- *'The Essential Elements of Predictive Analytics and Data Mining'*, Course Length: 1 hour 28 min, Course Completion, Certificate ID: AdvQN_hHKjQ6G6VdKXfZ3ZZcLEZo, LinkedIn Learning, April 02, 2022. ([Link](#))
- *'Data Science on Google Cloud Platform: Predictive Analytics'*, Course Length: 39 min, Course Completion, Certificate ID: Aa9z1dTpVP9aCEwEWlxoxsqMdWS2, LinkedIn Learning, April 05, 2022. ([Link](#))
- *'Data Analytics for Pricing Analysts in Excel'*, Course Length: 1 hour 26 min, Course Completion, Certificate ID: Aae9p3JaHtQAw9f6yWBsSlik946t, LinkedIn Learning, April 07, 2022. ([Link](#))
- *'Financial Forecasting with Big Data'*, Course Length: 1 hour 21 min, Course Completion, Certificate ID: AU1QCZT3aIYPaZAFMHxLpqq5Mt7H, LinkedIn Learning, April 07, 2022. ([Link](#))
- *'Business Analytics Foundations Predictive Prescriptive and Experimental Analytics'*, Course Length: 42 min, Course Completion, Certificate ID: AeNcJ8z8F5Ofkcvz04AO4mhb14X, LinkedIn Learning, April 06, 2022. ([Link](#))
- *'Business Analytics Foundations: Descriptive, Exploratory, and Explanatory Analytics'*, Course Length: 41 min, Course Completion, Certificate ID: AUGvuW00AcOpultSCUMYluzarij6, LinkedIn Learning, April 07, 2022. ([Link](#))
- *'Amazon Web Services: Data Analytics'*, Course Length: 2 hours 49 min, Course Completion, Certificate ID: ATy_lmDm6Hf_QB0yEeKofn6VGidr, LinkedIn Learning, April 06, 2022. ([Link](#))
- *'Prepare for the Microsoft 365 Messaging (MS-203) Exam'*, Course Length: 5 hours 18 min, Learning Path Completion, Certificate ID: Ae5ng5CYSX0YVxQ4_au1wnb_NoNa, Top Skills Covered: Help Desk Support, LinkedIn Learning, April 12, 2022. ([Link](#))
- *'Planning and Configuring a Microsoft Messaging Platform'*, Course Length: 2 hours 51 min, Course Completion, Certificate ID: AYrdaoOOPkHHaCbvkv_CoWA_U3Mn, LinkedIn Learning, April 12, 2022. ([Link](#))
- *'Implementing a Hybrid and Secure Microsoft Messaging Platform'*, Course Length: 2 hours 27 min, Course Completion, Certificate ID: AQj1qEXucq2rowWT8Ta3XqPO3eXO, LinkedIn Learning, April 12, 2022. ([Link](#))
- *'SketchUp 2021 Essential Training'*, Course Length: 2 hours 56 min, Course Completion, Certificate ID: AQNOeD7cpBXLi2xoM7TuWhgDQSB9, LinkedIn Learning, February 16, 2022. ([Link](#))
- *'SketchUp for Architecture: Details'*, Course Length: 4 hours 13 min, Course Completion, Certificate ID: AWFcVnandvZUecdB2ugSiRr_sbRE, LinkedIn Learning, February 16, 2022. ([Link](#))
- *'SketchUp & Revit Workflow'*, Course Length: 4 hours 13 min, Course Completion, Certificate ID: AfiJPGrNgBdpY-yrwNjCmPd3RX, LinkedIn Learning, February 16, 2022. ([Link](#))
- *'SketchUp for Architecture: Details'*, Course Length: 2 hours 16 min, Course Completion, Certificate ID: AaeYL_ZpNrZ6V_y7EhF7NAirECUF, LinkedIn Learning, February 11, 2022. ([Link](#))

- '*SketchUp Rendering Using Twilight*', Course Length: 2 hours 29 min, Course Completion, Certificate ID: Ad5x9AJWTa_G2F-HviRM4puaRFD_, LinkedIn Learning, February 11, 2022.
- '*Revit Insight: Energy Analysis*', Course Length: 2 hours 28 min, Course Completion, Certificate ID: AbRyuPgQfkDLfOI36godzGntSUc0, LinkedIn Learning, February 11, 2022. ([Link](#))
- '*Revit 2022: Essential Training for Architecture (Imperial and Metric)*', Course Length: 13 hours 51 min, Course Completion, Certificate ID: AaY1LAWzvSQ5b9pyp_EEVJBdndX6, LinkedIn Learning, February 11, 2022. ([Link](#))
- '*Revit: Conceptual Modeling Environment*', Course Length: 9 hours 54 min, Course Completion, Certificate ID: AVMERwfvird_y816afMMsDs65RXn, LinkedIn Learning, February 16, 2022. ([Link](#))
- '*Revit: Generative Design*', Course Length: 1 hour 27 min, Course Completion, Certificate ID: AdC3vgOG2FCHIPS1peGaFRMZoKxK, LinkedIn Learning, February 16, 2022. ([Link](#))
- '*Cert Prep: Revit Architecture Certified Professional*', Course Length: 3 hours 29 min, Course Completion, Certificate ID: ATOWxJu5oSdDT2y9qYnj3gXxuUB, LinkedIn Learning, February 25, 2022. ([Link](#))
- '*Cert Prep: Revit for Architectural Design Professional*', Course Length: 4 hours 23 min, Course Completion, Certificate ID: Aazuq6Z9q3c54PeuLJag9m8KGlzx, LinkedIn Learning, February 26, 2022. ([Link](#))
- '*Revit 2022 Essential Training for MEP*', Course Length: 4 hours 02 min, Course Completion, Certificate ID: AeHkvMCHp0TzBzunyfXHAnGSL5cZ, LinkedIn Learning, May 06, 2022. ([Link](#))
- '*Cert Prep: Revit MEP Mechanical & Plumbing Certified Professional*', Course Length: 3 hours 08 min, Course Completion, Certificate ID: Aa2h4wM0WiCWUsP8HpXxbzQFcoSm, LinkedIn Learning, May 12, 2022. ([Link](#))
- '*Revit: Design a Multi-Trade Commercial Building*', Course Length: 2 hours 22 min, Course Completion, Certificate ID: AVyzpayFgl0I_53cgfZIOe_RM6_U, LinkedIn Learning, April 29, 2022. ([Link](#))
- '*Revit MEP Families*', Course Length: 5 hours 48 min, Course Completion, Certificate ID: AWb3YQ4LTtwgsCOGsq8HJrQ8a53, LinkedIn Learning, April 26, 2022. ([Link](#))
- '*Revit Modeling Best Practices for BIM*', Course Length: 1 hour 05 min, Course Completion, Certificate ID: AXVDsRyR5X5RjZt64HQq_qY2aa11d, LinkedIn Learning, April 25, 2022. ([Link](#))
- '*Revit Remote Collaboration with BIM Collaborate Pro*', Course Length: 2 hours 42 min, Course Completion, Certificate ID: ARmf54R4RoMe30RwTImr7WTP2A7s, LinkedIn Learning, April 25, 2022. ([Link](#))
- '*BIM 360 Administration Quick Start*', Course Length: 38 min, Course Completion, Certificate ID: AU4IBTZyvSNIN_-DlGSMJ_NEooxm, LinkedIn Learning, April 23, 2022. ([Link](#))
- '*BIM 360 Docs Essential Training*', Course Length: 4 hours 25 min, Course Completion, Certificate ID: AQ1DnCit9Q7yWic_osO77cNBM3NI, LinkedIn Learning, April 22, 2022. ([Link](#))
- '*Introduction to BIM 360: Next Gen*', Course Length: 1 hour 51 min, Course Completion, Certificate ID: AQ8W8soCWrdDsabf8g5YkzjA2BeF, LinkedIn Learning, April 22, 2022. ([Link](#))
- '*InfraWorks and BIM 360 AEC Collaboration*', Course Length: 2 hours 19 min, Course Completion, Certificate ID: ATZqow2mYar-Y9ITYev6YmJf5WTq, LinkedIn Learning, April 29, 2022. ([Link](#))
- '*Introduction to ISO Global BIM Standards*', Course Length: 50 min, Course Completion, Certificate ID: AZR_4P2L9T5oyjgbqn4hAOEUaCH-, LinkedIn Learning, May 12, 2022. ([Link](#))

- '*BIM Collaborate Pro Essential Training*', Course Length: 7 hours 18 min, Course Completion, Certificate ID: AVClz4IZmGOEw_9JmxRK8romhc40, LinkedIn Learning, May 12, 2022. ([Link](#))
- '*Learning BIM 360 Field*', Course Length: 48 min, Course Completion, Certificate ID: AXJfX-tBHCT2chygDhD55I-dwdpD, LinkedIn Learning, May 12, 2022. ([Link](#))
- '*Archicad: Architectural Design Techniques*', Course Length: 3 hours 15 min, Course Completion, Certificate ID: AWIE_EtEbz19nAsBjGjMFBp7Jyzy, LinkedIn Learning, May 16, 2022. ([Link](#))
- '*Construction Industry: Going Digital in the Field*', Course Length: 2 hours 13 min, Course Completion, Certificate ID: AXTHxjC2zHkus86Ru_bJ_uHeMv0R, LinkedIn Learning, May 13, 2022. ([Link](#))
- '*Green Building Studio Energy Analysis*', Course Length: 48 min, Course Completion, Certificate ID: AeXTvrHtHxFnVtiGhUp_kSVf_Wug, LinkedIn Learning, February 13, 2022. ([Link](#))
- '*First Look: Python 3.9*', Course Length: 26 min, Course Completion, Certificate ID: AXTE4vG68_jOE1ksCom9olrQ6FKm, LinkedIn Learning, April 29, 2022. ([Link](#))
- '*SQL Server Machine Learning Services: Python*', Course Length: 2 hours 28 min, Course Completion, Certificate ID: Ad3EG5jPIT_VhwKI401ttHfYoVD, LinkedIn Learning, May 04, 2022. ([Link](#))
- '*Using SQL with Python*', Course Length: 1 hour 39 min, Course Completion, Certificate ID: AQmqSeuOk-toserYGOmXy-qTxrdT, LinkedIn Learning, May 03, 2022. ([Link](#))
- '*Python: Advanced Design Patterns*', Course Length: 1 hour 24 min, Course Completion, Certificate ID: AXdjsO2H3OtTeZP-WjD1E7IsFruf, LinkedIn Learning, May 18, 2022. ([Link](#))
- '*Python for Engineers and Scientists*', Course Length: 1 hour 58 min, Course Completion, Certificate ID: AYI84HdPkCnSquVWk4mo7V-p2ful, LinkedIn Learning, May 18, 2022. ([Link](#))
- '*Advanced Python*', Course Length: 2 hours 27 min, Course Completion, Certificate ID: AcvpA3Dk-o3miEbE41IW9goBVjmF, LinkedIn Learning, March 28, 2022. ([Link](#))
- '*Learning Python*', Course Length: 3 hours 10 min, Course Completion, Certificate ID: AQ6tdb4cjBrvNsxEoyd-CaF1ag96, LinkedIn Learning, April 03, 2022. ([Link](#))
- '*Managing Python Projects*', Course Length: 48 min, Course Completion, Certificate ID: AeWTNuE8tnqREno8sQv7XEEouHY5, LinkedIn Learning, March 02, 2022. ([Link](#))
- '*Python for Data Visualization*', Course Length: 1 hour 21 min, Course Completion, Certificate ID: AS7FUhCo7eJ_ij5Dw3AjC9FU46wc, LinkedIn Learning, February 16, 2022. ([Link](#))
- '*Python Statistics Essential Training*', Course Length: 2 hours 58 min, Course Completion, Certificate ID: AfSaGGTizBPjYy4QUqUBBnON-_IP, LinkedIn Learning, February 16, 2022. ([Link](#))
- '*Grasshopper and Rhino: Python Scripting*', Course Length: 5 hours 12 min, Course Completion, Certificate ID: AV7YJBFGe6kBD3KdDotkm6sVnRjA, LinkedIn Learning, February 25, 2022. ([Link](#))
- '*Grasshopper: Architectural Prototyping*', Course Length: 2 hours 28 min, Course Completion, Certificate ID: Ab1LOvHkuPgV-RDZjWvibatqEdr8, LinkedIn Learning, February 25, 2022. ([Link](#))
- '*Grasshopper Essential Training*', Course Length: 6 hours 24 min, Course Completion, Certificate ID: Af3LaICGYTZ6Ily-UMKSnooFt-R1, LinkedIn Learning, February 25, 2022. ([Link](#))

- '*Strategic Planning and Urban Design Foundations*', Course Length: 52 min, Course Completion, Certificate ID: AbSiLaPdGojHdIOfLpPnZkboRDXv, LinkedIn Learning, February 13, 2022. [\(Link\)](#)
- '*Sustainability for Design Construction and Manufacturing*', Course Length: 1 hour 9 min, Course Completion, Certificate ID: AX8ucXPworSAh0dN_qDh-0aaqrqo, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*The Employees Guide to Sustainability*', Course Length: 50 min, Course Completion, Certificate ID: Acdq055b-Lz5I7Ltgat8dOd1XXgo, LinkedIn Learning, February 24, 2022. [\(Link\)](#)
- '*Data for Architectural Design*', Course Length: 1 hour 4 min, Course Completion, Certificate ID: AaktSn0uW3WaNxMvUsI8SUPI5E0u, LinkedIn Learning, February 26, 2022. [\(Link\)](#)
- '*Data Ingestion with Python*', Course Length: 1 hour 25 min, Course Completion, Certificate ID: AbC8yQz3eE2tdsGWCuSkshh1RwNN, LinkedIn Learning, February 13, 2022. [\(Link\)](#)
- '*FME Desktop Data Translation for AEC*', Course Length: 3 hours 47 min, Course Completion, Certificate ID: AWq_JwlfNdNrREF5UstqAt1dZsujm, LinkedIn Learning, March 26, 2022. [\(Link\)](#)
- '*ArcGIS Pro Essential Training*', Course Length: 3 hours 17 min, Course Completion, Certificate ID: AbahU1HopzOdOOyg8Tzv8GhuCsNT, LinkedIn Learning, March 26, 2022. [\(Link\)](#)
- '*Foundations of Geographic Information Systems (GIS)*', Course Length: 59 min, Course Completion, Certificate ID: AXy3VsFOOCTZXqGg6rZ-mRcy_8EL, LinkedIn Learning, March 26, 2022. [\(Link\)](#)
- '*Learning ArcGIS Python Scripting*', Course Length: 2 hours 27 min, Course Completion, Certificate ID: ASAsFyqSmO5ulv4uJO2gTsfGfCli, LinkedIn Learning, March 26, 2022. [\(Link\)](#)
- '*Learning SCORM and Tin Can API*', Course Length: 1 hour 0 min, Course Completion, Certificate ID: AbGaMvtmlCD8Xhc-Yy-6EPC2yVB8, LinkedIn Learning, March 31, 2022. [\(Link\)](#)
- '*AutoCAD 2023 Essential Training*', Course Length: 9 hours 48 min, Course Completion, Certificate ID: ASgYHuHpzc5VBKNmvFGTvrq6vzKa, LinkedIn Learning, April 07, 2022. [\(Link\)](#)
- '*Understanding the Architectural Design Process*', Course Length: 31 min, Course Completion, Certificate ID: AZx5HULxEOYG0vkdQbpCJJpJhn9A, LinkedIn Learning, April 23, 2022. [\(Link\)](#)
- '*Finding Your Purpose at Work*', Course Length: 56 min, Course Completion, Certificate ID: AQsrd_4T7V5L8ren5lxBwBHjWpBK, LinkedIn Learning, April 17, 2022. [\(Link\)](#)
- '*Internal Interviewing*', Course Length: 47 min, Course Completion, Certificate ID: AQ5VcjS4M3RkTMug8CgID3wi_R4N, LinkedIn Learning, April 17, 2022. [\(Link\)](#)

23.17. Pacific Gas and Electric Company (PG&E): American Institute of Architects (AIA) Continuing Education Provider

- '*Basic Excel for Energy Professionals*', Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 02, 2023. [\(Link\)](#)
- '*Electrify Efficiently: Good Electrification for Policy and Program Professionals*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 24, 2023. [\(Link\)](#)

- '*Residential Electrification with the Passive House Standard (Previously Recorded)*', Course Length: 00:52-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 23, 2023. [\(Link\)](#)
- '*Passive House and Embodied Carbon in Building Materials*', Course Length: 01:30-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 15, 2022. [\(Link\)](#)
- '*The Economics of Residential Passive House*', Course Length: 01:30-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 20, 2022. [\(Link\)](#)
- '*Air Sealing Strategies for Healthier, Zero-Carbon Homes*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 2.5 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 01, 2022. [\(Link\)](#)
- '*Air Sealing Strategies for Healthier, Zero-Carbon Homes*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 2.5 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 01, 2022. [\(Link\)](#)
- '*2022 WCS: Communicating on Water Conservation: Influencing Consumer Behavior*', Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 10, 2022. [\(Link\)](#)
- '*2022 WCS: Obi Kaufmann: Understanding Water Through Art, Science, and Ecology*', Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5, BOK: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 10, 2022. [\(Link\)](#)
- '*Commercial Heat Pump Water Heating: Maintenance and Operations (Part 2 of 4)*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 10, 2022. [\(Link\)](#)
- '*Advanced Energy Management Strategies (Part 2 of 2)*', Course Length: 03:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 25, 2022. [\(Link\)](#)
- '*Advanced Energy Management Strategies (Part 1 of 2)*', Course Length: 03:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 20, 2022. [\(Link\)](#)
- '*Advanced Framing Techniques for Energy and Resource Efficiency*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 13, 2022. [\(Link\)](#)
- '*HVAC - Variable Frequency Drive (Part 2 of 2)*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 13, 2022. [\(Link\)](#)
- '*HVAC - Variable Frequency Drive (Part 2 of 2)*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 11, 2022. [\(Link\)](#)
- '*Commercial Building Retrofit Series: Electrification*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 4 - BOC: 4.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 12, 2022. [\(Link\)](#)
- '*Basic Pumping Efficiency in English*', Course Length: 02:30-Hours, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 07, 2022. [\(Link\)](#)
- '*Electric Heat Pumps for Space Heating and Cooling*', Course Length: 04:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 29, 2022. [\(Link\)](#)

- '*Commercial Building Retrofit Series: Title 24 Compliance*', Course Length: 04:0-Hour, Continuing Education Credits: BOC: 4.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 28, 2022. [\(Link\)](#)
- '*Surviving Drought - An example on the Fresno State Farm for Better Water Management*', Course Length: 02:30-Hour, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 21, 2022. [\(Link\)](#)
- '*Commercial Building Retrofit Series: Setting Energy Targets*', Course Length: 04:00-Hour, Continuing Education Credits: BOC: 4.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2022. [\(Link\)](#)
- '*Fast, Small, Flexible Kitchens of the Future: Ventless and Countertops*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 14, 2022. [\(Link\)](#)
- '*Overcoming Installation Challenges for Heat Pumps in HVAC Retrofits*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 1.5 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 14, 2022. [\(Link\)](#)
- '*Air Handling Systems- Design, Performance, and Commissioning*', Course Length: 08 Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 14, 2022. [\(Link\)](#)
- '*PV + Batteries: Integrating Storage with Grid-Tied Photovoltaic Systems (Part 1 of 3)*', Course Length: 03:0-Hour, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 12, 2022. [\(Link\)](#)
- '*PV + Batteries: Integrating Storage with Grid-Tied Photovoltaic Systems (Part 2 of 3)*', Course Length: 03:0-Hour, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2022. [\(Link\)](#)
- '*PV + Batteries: Integrating Storage with Grid-Tied Photovoltaic Systems (Part 3 of 3)*', Course Length: 03:0-Hour, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 27, 2022. [\(Link\)](#)
- '*Enclosure Systems and Materials: Architectural Precast*', Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2 - BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 16, 2022. [\(Link\)](#)
- '*Photovoltaic (PV) Site & Energy Storage Systems (ESS) Analysis and System Sizing (Part 1 of 2)*', Course Length: 03:30-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 09, 2022. [\(Link\)](#)
- '*Photovoltaic (PV) Site & Energy Storage Systems (ESS) Analysis and System Sizing (Part 2 of 2)*', Course Length: 03:30-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 10, 2022. [\(Link\)](#)
- '*Analysis-based Lighting Recommendations*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 14, 2021. [\(Link\)](#)
- '*How to Use Energy Efficient Countertop Equipment to Increase Production*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 02, 2021. [\(Link\)](#)
- '*Commissioning with Data*', Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 30, 2021. [\(Link\)](#)
- '*Retrofitting Crawlspace: Installing Ground Cover for Vapor, Air, and Thermal Control*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 30, 2021. [\(Link\)](#)

- *'Retrofitting Crawlspace: Prepping Crawlspace for Moisture Management and Efficiency'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 04, 2021. [\(Link\)](#)
- *'Retrofitting Crawlspace: Air Barrier and Thermal Barrier Alignment in Crawlspace'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 22, 2021. [\(Link\)](#)
- *'Retrofitting Crawlspace: Updating Foundation Vents for Efficiency, Rodent Control, and Wildfire Safety'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 21, 2021. [\(Link\)](#)
- *'Retrofitting Crawlspace: Insulation Systems for Stem Walls'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 15, 2021. [\(Link\)](#)
- *'Retrofitting Crawlspace: Air Sealing and Insulating Crawlspace Subfloors'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 05, 2021. [\(Link\)](#)
- *'IES Fundamentals of Lighting: 9 Class Series'*, Course Length: 27:00-Hours, Continuing Education Credits: AIA-HSW: 20 - BOC: 27, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 22, 2021. [\(Link\)](#)
- *'Building Enclosure Commissioning Workshop'*, Course Length: 08:00-Hours, Continuing Education Credits: AIA: 7.5 - BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 18, 2021. [\(Link\)](#)
- *'Electric Vehicle Chargers: Design and Installation Strategies for New and Existing Homes'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 16, 2021. [\(Link\)](#)
- *'Full Scale Induction for Commercial Kitchens'*, Course Length: 01:00-Hours, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 11, 2021. [\(Link\)](#)
- *'HVAC Fundamentals: New Ideas for Novices (2 Day Class)'*, Course Length: 16:00-Hours, Continuing Education Credits: BOC: 14, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 09, 2021. [\(Link\)](#)
- *'HVAC System Testing for Energy Efficiency - 04.20.2021 (Part 1 of 3)'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2 - NATE: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2021. [\(Link\)](#)
- *'HVAC System Testing for Energy Efficiency - 04.21.2021 (Part 2 of 3)'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2 - NATE: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 21, 2021. [\(Link\)](#)
- *'HVAC System Testing for Energy Efficiency - 04.22.2021 (Part 3 of 3)'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2 - NATE: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 22, 2021. [\(Link\)](#)
- *'The Financials of Site Electrification and Resilience - Part 1 of 3'*, Course Length: 03:00-Hours, Continuing Education Credits: BOC: 2.75 - NABCEP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 02, 2021. [\(Link\)](#)
- *'The Financials of Site Electrification and Resilience - Part 2 of 3'*, Course Length: 03:00-Hours, Continuing Education Credits: BOC: 2.75 - NABCEP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 03, 2021. [\(Link\)](#)

- *'The Financials of Site Electrification and Resilience - Part 3 of 3'*, Course Length: 03:00-Hours, Continuing Education Credits: BOC: 2.75 - NABCEP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 04, 2021. [\(Link\)](#)
- *'ACCA CCA Dry Climate Nonresidential Manual N, CS, and QD Series with Wrightsoft (Part 1 of 3)'*, Course Length: 07:30-Hours, Continuing Education Credits: NATE: 8 - BOC: 8, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 26, 2021. [\(Link\)](#)
- *'ACCA CCA Dry Climate Nonresidential Manual N, CS, and QD Series with Wrightsoft (Part 2 of 3)'*, Course Length: 07:30-Hours, Continuing Education Credits: NATE: 8 - BOC: 8, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 27, 2021. [\(Link\)](#)
- *'ACCA CCA Dry Climate Nonresidential Manual N, CS, and QD Series with Wrightsoft (Part 3 of 3)'*, Course Length: 07:30-Hours, Continuing Education Credits: NATE: 8 - BOC: 8, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 28, 2021. [\(Link\)](#)
- *'Multifamily Electrification: Water Heating Deep Dive and Emerging Technologies'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BIP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 28, 2021. [\(Link\)](#)
- *'Multifamily Electrification: Space Conditioning Deep Dive & Emerging Technologies'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BIP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 29, 2021. [\(Link\)](#)
- *'Multifamily Electrification: Space Conditioning and Water Heating'*, Course Length: 03:00-Hours, Continuing Education Credits: AIA: 3 - BIG: 3 - BIP: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 15, 2021. [\(Link\)](#)
- *'Multifamily Electrification: Introduction'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BIG: 1.5 - BIP: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 08, 2021. [\(Link\)](#)
- *'Introduction to Passive House Trades'*, Course Length: 04:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 19, 2021. [\(Link\)](#)
- *'Carbon Free Homes: Features, Benefits, Valuation'*, Course Length: 03:00-Hours, Continuing Education Credits: BIG: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 15, 2021. [\(Link\)](#)
- *'Specifying Efficient Equipment for Production Kitchens'*, Course Length: 01:00-Hour, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 14, 2021. [\(Link\)](#)
- *'Daylighting Metrics'*, Course Length: 03:00-Hours, Continuing Education Credits: AIA-HSW: 2.75 - BOC: 2.75, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 07, 2021. [\(Link\)](#)
- *'Energy Efficient Design and Retrofit of Laboratory Buildings'*, Course Length: 07:30-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, October 06, 2021. [\(Link\)](#)
- *'Back to the New Normal: CDPH Removal of COVID-19 Modifications'*, Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 30, 2021. [\(Link\)](#)
- *'Preparation for Lighting Controls Success - Using a Basis of Design (BOD) and a Sequence of Operations (SOO)'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA-HSW: 4 - BOC: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 30, 2021. [\(Link\)](#)

- '*Air Sealing and Insulating Existing Homes: Addressing Air Leakage and Thermal Performance in Ceilings without Attics*', Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI:4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 23, 2021. ([Link](#))
- '*Air Sealing and Insulating Existing Homes: Addressing Common Hazards During Energy Upgrades*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI:2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 23, 2021. ([Link](#))
- '*Air Sealing and Insulating Existing Homes: Air Leakage Control for Interstitial Cavities*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI:2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 09, 2021. ([Link](#))
- '*Commercial & Multifamily Heat Pump Water Heating Engineering and Design Deep Dive (Part 2 of 2)*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, September 02, 2021. ([Link](#))
- '*Advanced HVAC Control Approaches for Variable-Air-Volume Systems*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 26, 2021. ([Link](#))
- '*Basics of Photovoltaic (PV) & Energy Storage Systems (ESS) for Grid-Tied Applications (Day 2 of 2)*', Course Length: 03:30-Hours, Continuing Education Credits: AIA: 3.5 - NABCEP: 0.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 24, 2021. ([Link](#))
- '*Optimizing Residential Forced-Air HVAC Systems: Load Calculations, Equipment Selection and Layout*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 24, 2021. ([Link](#))
- '*Optimizing Residential Forced-Air HVAC Systems: Low-Loss Duct Systems*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 27, 2021. ([Link](#))
- '*Optimizing Residential Forced-Air HVAC Systems: Airflow for Comfort and Efficiency*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 02, 2021. ([Link](#))
- '*Advanced Lighting Control Systems: No Longer Relays & Occupancy Sensors*', Course Length: 06:30-Hours, Continuing Education Credits: BOC: 6, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 19, 2021. ([Link](#))
- '*Ultraviolet-C (UVC) and Other Strategies for Pathogen Mitigation in Buildings*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 05, 2021. ([Link](#))
- '*Air Sealing and Insulating Existing Homes: Attic Ventilation for Efficiency, Access, and Wildfire Safety*', Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2 - BIG: 2 - BPI:2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 28, 2021. ([Link](#))
- '*Air Sealing with Low VOC Materials*', Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5 - BIG: 1.5 - BPI: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 20, 2021. ([Link](#))
- '*Kitchen Makeover: Replacement Equipment to Boost Profits and Cut Carbon*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, July 08, 2021. ([Link](#))

- *'Energy Auditing Bootcamp - 2 Day'*, Course Length: 16:00-Hours, Continuing Education Credits: AIA: 14 - BOC: 14, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 28, 2021. [\(Link\)](#)
- *'Window Installation Procedures to Provide Real World Performance and Prevent Water Intrusion'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 24, 2021. [\(Link\)](#)
- *'Advanced Framing for Energy and Resource Efficiency'*, Course Length: 02 Hours, Continuing Education Credits: AIA: 2 - Big: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 22, 2021. [\(Link\)](#)
- *'Central Heat Pump Water Heating Systems for Clinical and Hospital Settings'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 22, 2021. [\(Link\)](#)
- *'Residential Lighting Controls'*, Course Length: 02:30-Hours, Continuing Education Credits: AIA: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 18, 2021. [\(Link\)](#)
- *'Optimizing Kitchen Ventilation and Restaurant HVAC for Maximum Health and Safety and Minimum Cost-to-Operate'*, Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 17, 2021. [\(Link\)](#)
- *'Window Selection for New and Existing Homes'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 17, 2021. [\(Link\)](#)
- *'Integrated Design for Non-Residential and Multi-Unit Residential: Integrated Design for a Changing Climate'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5 - BOC:1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 17, 2021. [\(Link\)](#)
- *'Integrated Design for Non-Residential and Multi-Unit Residential: Projects of All Sizes and Delivery Methods'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5 - BOC:1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 20, 2021. [\(Link\)](#)
- *'Integrated Design for Non-Residential and Multi-Unit Residential: How to Use Whole-Building Performance Energy Targets During Design'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5 - BOC:1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 15, 2021. [\(Link\)](#)
- *'Residential Energy Efficient Lighting'*, Course Length: 02:30-Hours, Continuing Education Credits: AIA: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 11, 2021. [\(Link\)](#)
- *'Clean Energy Homes: Key Systems & Energy Modeling'*, Course Length: 04:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 10, 2021. [\(Link\)](#)
- *'Kicking Carbon Out of Buildings - Design for Decarbonized Building'*, Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 09, 2021. [\(Link\)](#)
- *'Inspecting Photovoltaic (PV) & Energy Storage Systems (ESS) for Code Compliance - (Part 1 of 2)'*, Course Length: 03:30-Hours, Continuing Education Credits: NABCEP: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 09, 2021. [\(Link\)](#)
- *'Inspecting Photovoltaic (PV) & Energy Storage Systems (ESS) for Code Compliance - (Part 2 of 2)'*, Course Length: 03:30-Hours, Continuing Education Credits: NABCEP: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 10, 2021. [\(Link\)](#)

- '*Balanced Ventilation for Better Health, Comfort, and Energy Efficiency: System Types, Install Strategies, Duct Design and Critical Details*', Course Length: 04:00-Hours, Continuing Education Credits: BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 09, 2021. [\(Link\)](#)
- '*Decarbonizing the Built Environment Day 1*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 1.75, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 02, 2021. [\(Link\)](#)
- '*Decarbonizing the Built Environment Day 2*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 03, 2021. [\(Link\)](#)
- '*Plant Talk III*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 25, 2021. [\(Link\)](#)
- '*Pump and Well Efficiency for Potable Water Systems*', Course Length: 04:30-Hours, Continuing Education Credits: BOC: 4.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 20, 2021. [\(Link\)](#)
- '*Advanced Energy Management Strategies Part 2 of 2*', Course Length: 03:00-Hours, Continuing Education Credits: BOC: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 20, 2021. [\(Link\)](#)
- '*ADR 102: Automated Demand Response Deep Dive*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 20, 2021. [\(Link\)](#)
- '*Affordable and Sustainable Multi-Family Housing: Strategies and Case Studies*', Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 19, 2021. [\(Link\)](#)
- '*VFDs for Pumping Applications*', Course Length: 01:30-Hours, Continuing Education Credits: BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 19, 2021. [\(Link\)](#)
- '*IHACI: AC-HP Refrigeration Module Day 1*', Course Length: 02:00-Hours, Continuing Education Credits: NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 19, 2021. [\(Link\)](#)
- '*IHACI: Air Distribution Module Day 2*', Course Length: 02:00-Hours, Continuing Education Credits: NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 17, 2021. [\(Link\)](#)
- '*IHACI: Air Distribution Module Day 3*', Course Length: 02:00-Hours, Continuing Education Credits: NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 23, 2021. [\(Link\)](#)
- '*IHACI: AC-HP Refrigeration Module Day 3*', Course Length: 02:00-Hours, Continuing Education Credits: NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 26, 2021. [\(Link\)](#)
- '*IHACI: Electrical Module Part 2 of 4*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 22, 2021. [\(Link\)](#)
- '*IHACI: Electrical Module Part 3 of 4*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 28, 2021. [\(Link\)](#)
- '*IHACI: Electrical Module Part 4 of 4*', Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 28, 2021. [\(Link\)](#)
- '*IHACI: NATE AC-HP Refrigeration & Air Distribution Training (Day 1)*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 1.75 - NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 03, 2021. [\(Link\)](#)

- '*IHACI: NATE AC-HP Refrigeration & Air Distribution Training (Day 2)*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 1.75 - NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 04, 2021. [\(Link\)](#)
- '*IHACI: NATE AC-HP Refrigeration & Air Distribution Training (Day 3)*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 1.75 - NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, November 10, 2021. [\(Link\)](#)
- '*ADR 101: Understanding Automated Demand Response*', Course Length: 01:30-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 18, 2021. [\(Link\)](#)
- '*Advanced Energy Management Strategies Part 1 of 2*', Course Length: 03:00-Hours, Continuing Education Credits: BOC: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 18, 2021. [\(Link\)](#)
- '*Advanced Concepts in Designing and Retrofitting Energy Efficient Data Centers*', Course Length: 07:30-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 13, 2021. [\(Link\)](#)
- '*CoolSave - Saving Energy in Grocery Refrigeration*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 11, 2021. [\(Link\)](#)
- '*How to Design and Build High-Performance Walls*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 11, 2021. [\(Link\)](#)
- '*Cost-Effective Approaches for Energy Efficient Remodels*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 10, 2021. [\(Link\)](#)
- '*Radiant Cooling and Heating Systems for Large Commercial Buildings*', Course Length: 07:30-Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 06, 2021. [\(Link\)](#)
- '*RCx101: Identifying and Assessing Common Retro-Cx Opportunities*', Course Length: 08:00-Hours, Continuing Education Credits: AIA: 7.5 - BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 05, 2021. [\(Link\)](#)
- '*How to Interpret Pump Efficiency Results and Track Pump Performance*', Course Length: 01:30-Hours, Continuing Education Credits: BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 05, 2021. [\(Link\)](#)
- '*Understanding a Pump Efficiency Test*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 29, 2021. [\(Link\)](#)
- '*Variable Speed Drives for Agricultural Applications*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 29, 2021. [\(Link\)](#)
- '*Fans, Ductwork, and Air Handling Components: Design, Performance, and Commissioning*', Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 28, 2021. [\(Link\)](#)
- '*Home Energy Series: Session 1 - Home Evaluation: Understanding Your Home's Energy Usage and Your Utility Bill*', Course Length: 03:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 04, 2021. [\(Link\)](#)

- *'Home Energy Series: Session 3 - Home Energy: Creating Your Whole Home- Based Solar Strategy'*, Course Length: 03:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, August 18, 2021. [\(Link\)](#)
- *'Air Sealing Strategies for Zero Net Energy Homes'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 04, 2021. [\(Link\)](#)
- *'Designing Commercial Spaces with Modern Ceiling Fans'*, Course Length: 04:00-Hours, Continuing Education Credits: BOC: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 04, 2021. [\(Link\)](#)
- *'Energy and Financial Calculations for Lighting Retrofits'*, Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 04, 2021. [\(Link\)](#)
- *'Central Heat Pump Water Heating Systems for Multifamily Buildings'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 29, 2021. [\(Link\)](#)
- *'Air Sealing and Insulating Existing Homes: Developing a Work Scope for Attic Efficiency Upgrades'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 28, 2021. [\(Link\)](#)
- *'3D Residential HVAC Design (No CAD Required) - Part 1'*, Course Length: 03:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 27, 2021. [\(Link\)](#)
- *'2021 WCS: Water Equity: Collaboration, Capacity Building and Capital'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 27, 2021. [\(Link\)](#)
- *'2021 WCS: Watershed Stewardship from Snowflake to the Bay'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2021. [\(Link\)](#)
- *'Lighting Controls Overview and Manufacturers' Demos'*, Course Length: 04:00-Hours, Continuing Education Credits: AIA-HSW: 3.75 - BOC: 3.75, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 22, 2021. [\(Link\)](#)
- *'Case Studies for Calculating Lighting Solutions'*, Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2021. [\(Link\)](#)
- *'Enclosure Systems and Materials: Portland Cement Plaster on Framed Walls'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2 - BIG: 2 - BOC: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 20, 2021. [\(Link\)](#)
- *'Air Sealing and Insulating Existing Homes: Recessed Fixtures in Vented Attics'*, Course Length: 02:00-Hours, Continuing Education Credits: AIA-HSW: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 14, 2021. [\(Link\)](#)
- *'2021 WCS: Climate Positive Landscape Design: Going Beyond Neutral'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 13, 2021. [\(Link\)](#)
- *'2021 WCS: Plant Talk'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 13, 2021. [\(Link\)](#)

- '*Combination Ovens, the Key to the Energy-Effective Kitchen of the Future*', Course Length: 01:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 08, 2021. [\(Link\)](#)
- '*ACCA Manual D Part 1, Duct Design*', Course Length: 07:30-Hours, Continuing Education Credits: BIG: 7.5 - BPI: 7.5 - NATE: 7.5 - BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 07, 2021. [\(Link\)](#)
- '*ACCA Manual D Part 2, Duct Design with WrightSoft*', Course Length: 07:30-Hours, Continuing Education Credits: BIG: 7.5 - BPI: 7.5 - NATE: 7.5 - BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 18, 2021. [\(Link\)](#)
- '*PV + Batteries: Integrating Storage with Grid-Tied Photovoltaic Systems - 04.07.2021 (Part 1 of 2)*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.25 - BIG: 3.5 - BPI: 3.5 - NABCEP: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 07, 2021. [\(Link\)](#)
- '*PV + Batteries: Integrating Storage with Grid-Tied Photovoltaic Systems - 04.08.2021 (Part 2 of 2)*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.25 - BIG: 3.25 - NABCEP: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 08, 2021. [\(Link\)](#)
- '*2021 WCS: Trends in Water Use, Efficiency Technologies, and Conservation Priorities*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 06, 2021. [\(Link\)](#)
- '*2021 WCS: Water/Energy Interactions: Covid-19 and Other Factors Impacting the Water/Energy Nexus*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.25 - BOC: 1.25, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 06, 2021. [\(Link\)](#)
- '*Electric Heat Pumps for Water Heating*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 2 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 01, 2021. [\(Link\)](#)
- '*Air Sealing and Insulating Existing Homes: Creating Continuity in Ceiling Air Barrier*', Course Length: 04:00-Hours, Continuing Education Credits: AIA: 4 - BIG: 4 - BPI: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 31, 2021. [\(Link\)](#)
- '*Air Sealing and Insulating Existing Homes: Interpreting and Prioritizing Infrared and Blower Door Results*', Course Length: 02:00-Hours, Continuing Education Credits: AIA: 1.75 - BIG: 2 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 31, 2021. [\(Link\)](#)
- '*Graphic Representation of Data: Making Charts that Matter*', Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 26, 2021. [\(Link\)](#)
- '*Building Envelope Commissioning Case Studies*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 25, 2021. [\(Link\)](#)
- '*The Benefits and Challenges of R290 as a Refrigerant*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 25, 2021. [\(Link\)](#)
- '*Remote Well and Pump Monitoring using the Smart Meter*', Course Length: 02:30-Hours, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 25, 2021. [\(Link\)](#)
- '*Industrial & Manufacturing Customer Workshop*', Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 24, 2021. [\(Link\)](#)

- *'Implementing Heat Pumps Water Heaters in Replacement Scenarios: Why They Make Sense'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BIG: 1.5 - BPI: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 23, 2021. [\(Link\)](#)
- *'Selecting Retrofit or Replacement Lighting'*, Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 23, 2021. [\(Link\)](#)
- *'IAQ - How to Prepare your Commercial HVAC for Pandemics/Wildfires'*, Course Length: 08:00-Hours, Continuing Education Credits: BOC: 8, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 23, 2021. [\(Link\)](#)
- *'Commercial Quality Maintenance and Installation of Economizers (Part 1 of 2) (Previously Recorded)'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2 - NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 22, 2022. [\(Link\)](#)
- *'Commercial Quality Maintenance and Installation of Economizers (Part 2 of 2)'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2 - NATE: 3, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, June 17, 2021. [\(Link\)](#)
- *'Integrated Design for Non-Residential and Multi-Unit Residential: Overcoming Design and Management Challenges'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA-HSW: 1.5 - BOC:1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 18, 2021. [\(Link\)](#)
- *'Irrigation System Field Maintenance'*, Course Length: 02:30-Hours, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 18, 2021. [\(Link\)](#)
- *'Ductless Mini Split Design, Installation, & Performance'*, Course Length: 06:00-Hours, Continuing Education Credits: BIG: 6 - BOC: 6 - BPI: 6, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 16, 2021. [\(Link\)](#)
- *'Basic Pump Efficiency translated to Hmong'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 11, 2021. [\(Link\)](#)
- *'Designing for Light and Health - What You Need to Know'*, Course Length: 02:00-Hours, Continuing Education Credits: BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 11, 2021. [\(Link\)](#)
- *'Energy Audit Skills: Tools, Data Collection Techniques, and Calculations'*, Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 10, 2021. [\(Link\)](#)
- *'Pathways to a Zero Net Energy Home'*, Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BIG: 1.5 - BPI: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 10, 2021. [\(Link\)](#)
- *'Identifying Existing Lighting Technologies'*, Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 09, 2021. [\(Link\)](#)
- *'Central Heat Pump Water Heating Engineering and Design Deep Dive'*, Course Length: 02:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 09, 2021. [\(Link\)](#)
- *'Photovoltaic (PV) Site & Energy Storage Systems (ESS) Analysis and System Sizing'*, Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 6.5 - BIG: 3.5 - BPI: 3.5 - NABCEP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 08, 2021. [\(Link\)](#)

- '*Basic Excel for Energy Auditors*', Course Length: 08:00-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 08, 2021. [\(Link\)](#)
- '*Basic Heating, Ventilating, & Air Conditioning*', Course Length: 04:00-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 04, 2021. [\(Link\)](#)
- '*Retrofitting Homes for Electrification and Decarbonization*', Course Length: 04:00-Hours, Continuing Education Credits: AIA: 3.75 - BIG: 4 - BIP: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 04, 2021. [\(Link\)](#)
- '*NATE HVAC-R Support Training*', Course Length: 02:00-Hours, Continuing Education Credits: BIG: 2 - BIP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 03, 2021. [\(Link\)](#)
- '*Lighting Fundamentals - Part 1: Terminology, Vision and Color*', Course Length: 02:30-Hours, Continuing Education Credits: AIA (HSW): 2 - BOC: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 01, 2021. [\(Link\)](#)
- '*Lighting Fundamentals - Part 2: Light Sources, Luminaires and Controls*', Course Length: 02:30-Hours, Continuing Education Credits: AIA (HSW): 2 - Boc: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 03, 2021. [\(Link\)](#)
- '*Lighting Fundamentals - Part 3: Light Measurement, Codes & Standards*', Course Length: 02:15-Hours, Continuing Education Credits: AIA (HSW): 2 - Boc: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 05, 2021. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #3 Save Water for Climate Resilience*', Course Length: 01:30-Hours, Continuing Education Credits: Boc: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 14, 2020. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #4 - Act Local to Mitigate Climate Change*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 11, 2021. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #5 - Conserve Energy to Reduce GHG's*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 22, 2021. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #6 - Reduce Waste to Reduce Greenhouse Gas Emissions*', Course Length: 01:30-Hours, Continuing Education Credits: BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, March 22, 2021. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #7 - Carbon Sequestration to Mitigate Climate Change*', Course Length: 01:30-Hours, Continuing Education Credits: BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, April 19, 2021. [\(Link\)](#)
- '*Carbon Sequestration in the Landscape Series: #8 - Protect Habitat for Climate Resilience*', Course Length: 01:30-Hours, Continuing Education Credits: AIA: 1.5 - BOC: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, May 17, 2021. [\(Link\)](#)
- '*Basic Pump Efficiency in English*', Course Length: 02:30-Hours, Continuing Education Credits: BOC: 2.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 25, 2021. [\(Link\)](#)

- '*Heat Recovery Dishmachines and Heat Pump Water Heaters: The Hidden Keys to a Zero Net Carbon Kitchen*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 25, 2021. [\(Link\)](#)
- '*Introduction to Programmable Logic Controllers: Energy Efficiency Applications*', Course Length: 07:30-Hours, Continuing Education Credits: BOC: 7, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 24, 2021. [\(Link\)](#)
- '*Field Data Collection for Lighting Audits and Retrofits*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 23, 2021. [\(Link\)](#)
- '*Title 24 Proper Procedures for Charging Air Conditioners and Heat Pumps*', Course Length: 07:30-Hours, Continuing Education Credits: BIG: 7.5 - BPI: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 23, 2021. [\(Link\)](#)
- '*ACCA Manual H, Residential Heat Pump, Design and Installation*', Course Length: 07:30-Hours, Continuing Education Credits: BIG: 7.5 - BPI: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 19, 2021. [\(Link\)](#)
- '*NATE HVAC-R New Hire*', Course Length: 02:00-Hours, Continuing Education Credits: BIG: 2 - BIP: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 17, 2021. [\(Link\)](#)
- '*ACCA Manual J and S, Equipment Selection & Sizing*', Course Length: 07:30-Hours, Continuing Education Credits: BIG: 7.5 - BPI: 7.5 - NATE: 7.5 - BOC: 7.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 16, 2021. [\(Link\)](#)
- '*Energy Auditing Techniques for Small & Medium Commercial Facilities (3 Day Class)*', Course Length: 25:30-Hours, Continuing Education Credits: AIA: 21 - BOC: 21, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 17, 2021. [\(Link\)](#)
- '*Industrial Lighting Workshop*', Course Length: 05:30-Hours, Continuing Education Credits: BOC: 5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 11, 2021. [\(Link\)](#)
- '*Getting Started With a Lighting Replacement Project*', Course Length: 03:30-Hours, Continuing Education Credits: AIA-HSW: 3.5 - BOC: 3.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 09, 2021. [\(Link\)](#)
- '*Basics of Photovoltaic (PV) & Energy Storage Systems (ESS) for Grid-Tied Applications*', Course Length: 03:30-Hours, Continuing Education Credits: BIG: 3.5 - BPI: 3.5 - NABCEP: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 08, 2021. [\(Link\)](#)
- '*Outdoor Lighting Workshop*', Course Length: 05:30-Hours, Continuing Education Credits: BOC: 5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 18, 2021. [\(Link\)](#)
- '*Demand Control Ventilation (DCV) and Variable Speed Fans Non Residential*', Course Length: 04:00-Hours, Continuing Education Credits: BOC: 4, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 04, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 1: kW Engineering's nmecr - 1.21.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 21, 2021. [\(Link\)](#)

- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 2: Recurve's Resource Planner, Fleet Manager and Flex Ledger - 1.28.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 28, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 3: Cascade Energy's Energy Sensei Platform - 2.02.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 02, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 4: AESC's Praxis - 2.04.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 04, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 5: Evergreen's AMICS Tool - 2.10.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 10, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 6: Enpira's Building Portfolios - 2.16.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 16, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 7: EnergyRM's Insights, DeltaMeter and Transactions - 2.23.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 23, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations 8: Bill Koran's ECAM - 2.25.2021*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, February 25, 2021. [\(Link\)](#)
- '*IES Intermediate 10-Class Series: Quality Energy Efficient Lighting*', Course Length: 30:00-Hours, Continuing Education Credits: AIA-HSW: 20 - BOC: 20, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 27, 2021. [\(Link\)](#)
- '*Normalized Metered Energy Consumption (NMEC) Calculator Demonstrations*', Course Length: 01:00-Hour, Continuing Education Credits: BOC: 1, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, January 19, 2021. [\(Link\)](#)
- '*Overcoming Installation Challenges for Heat Pump Water Heater Retrofits*', Course Length: 01:30-Hours, Continuing Education Credits: BIG: 1.5 - BPI: 0.75, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 17, 2020. [\(Link\)](#)
- '*Integrated Design Process- How to Use Whole-Building Performance Energy Targets During Design*', Course Length: 01:30-Hours, Continuing Education Credits: AIA (HSW): 1.5 - Boc: 1.5, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 08, 2020. [\(Link\)](#)
- '*Energy Efficiency and Solar For Homeowners*', Course Length: 02:30-Hours, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 08, 2020. [\(Link\)](#)
- '*Introduction to the Passive House Standard*', Course Length: 04:00-Hours, Continuing Education Credits: AIA-HSW: 4 - BPI: 2, Course Provider: Pacific Gas and Electric Company (PG&E) Energy Centers, December 16, 2020. [\(Link\)](#)

26. SOFTWARE/TECHNICAL SKILLS

Solar Energy/Energy Efficiency/Architectural/Decision Making/Office Softwares:

High-level experience of working with Softwares/Plugins:

- PHPP, DesignPH, Bim2PH, PHribon, SketchUp, PVSOL Premium, PVSyst, Polysun, RETScreen Expert, PV Sketch, BimSolar, CASAnova, Climate Consultant 6, Meteonorm 8, Expert Choice, SBED, HEED, PVFChart, Grapher 12, M.S. Office 2021, Microsoft 365
- High-Experience in programming languages of DOS and MS-WINDOWS environments
- Strong background in solar power plant modeling, sizing and implementation

Intermediate-level experience of working with Softwares/Programming/Plugins:

Design-Builder, Revit, Rhino (Grasshopper, Ladybug, Galapagos), EcoTect, Opaque, Comfen, Solmetric Python, AutoCAD, etc.