

HalfMoon Education Live Continuing Education Webinars

Passive House: Planning and Design

Online

Wednesday, April 19, 2023 | 8:30 - 11:45 am CDT

Thursday, April 20, 2023 | 8:30 - 11:45 am CDT

Credits: Professional Engineers: 6.0 PDHs

Architects: 6.0 HSW CE Hours AIA: 6.0 LU|HSW

International Code Council: .6 CEUs (Energy)

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AIA
Continuing
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Provider



Webinar Agenda

Agenda Day One: Wednesday, April 19, 2023

8:30 - 11:45 am CDT (including a 15-min. break)

Understanding the Energy Efficiency of Conventional Construction

- Facts and figures on residential energy use
- History of energy-conserving residential construction
- Building code requirements
- Energy conservation incentives
- Heat transfer basics
- Common energy and moisture issues in buildings

Passive House Standard: Purpose, Principles and Development

- History of certifying agencies in US: PHI and PHIUS
- Passive House standard: voluntary performance-based building envelope energy standard
- Strategic design, planning process, and the team
- Passive House certification criteria
- Architecture/engineering the Perfect Wall
- Architecture/engineering: a sample project with pre-certification documentation
- Examining common design features of Passive Houses

Architectural Elements of Passive Houses

- Siting, sizing and orientation
- Super-insulated envelope with minimized thermal bridging
- High performance windows and doors
- Air tightness, controlled ventilation
- Moisture and air barriers
- Ultra-efficient lights, fixtures and appliances
- Summer shading and cooling strategies
- Winter solar gain and heat retention strategies
- Integrating renewable energy technologies

Agenda Day Two: Thursday, April 20, 2023

8:30 - 11:45 am CDT (including a 15-min. break)

Mechanical/ Electrical Systems in Passive Houses

- Cooling/heating loads
- Ventilation systems
- Heating/cooling systems
- Water heating
- Renewable energy generation
- Energy storage
- Energy monitoring

Financial Analysis/Passive House Case Studies

- Financial issues
- Westbrook House case study
- Case studies: in the planning process, under construction and finished projects

Presented by

Paul Westbrook *President of RE:source Design in Fairview, TX*
Mr. Westbrook designed his own solar home in north Texas in 1996, which won the Energy Value Housing Award for Innovative Design (<https://enerjazz.com/house>). It still ranks as one of the most efficient homes in Texas. He was the LEED AP for the 1.1 million square foot Texas Instruments factory, which was the first LEED Gold semiconductor factory in the world.

Roger Taylor *Owner of DwellGreen of Dallas, TX*

Mr. Taylor is a Certified Passive House Consultant and Passive House Rater. He is a HERS Rater, and is certified by Energy Star, DOE Zero Energy Ready Home, IECC and BPI. Mr. Taylor has served on the ANSI/RESNET National Committee for water efficiency, on the Environmental Committee for the Town of Fairview, Texas, and as project manager for large commercial data centers

Tuition

\$319 for individual registration
\$289 for two or more registrants from the same company at the same time.

Included with your registration: PDF seminar manual.

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and 6.0 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .6 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:

6.0 HSW LUs (AIA)

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