

HalfMoon Education Live Continuing Education Webinars

Passive House: Planning, Design and Construction

Online - Friday, October 21, 2022 | 9:00 am - 4:30 pm CDT

Credits:

Professional Engineers: 6.5 PDHs

Architects: 6.5 HSW CE Hours AIA: 6.5 LU|HSW

International Code Council: .65 CEUs (Sustainability)

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Webinar Agenda | Friday, October 21, 2022 | 9:00 am - 4:30 pm CDT (including a 30-min. break)

Understanding the Energy Efficiency of Conventional Construction

- Facts and figures on residential energy use
- History of energy-conserving residential construction
- Climate considerations
- State and local building code requirements
- Energy conservation incentives
- Development of PHIUS+ 2018 design standard

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
- Passive House principles: insulation, airtight envelope, continuous ventilation
- Energy calculations: how and when to perform them
- Energy calculation tools: an introduction to tools and their functionality
- Assembling a team to ensure quality and performance
- Examining common design features of Passive Houses

Architectural Elements of Passive Houses

- Siting, sizing and orientation
- Super-insulated envelope with minimized thermal bridging
- Efficient mechanical ventilationsystems
- Ultra-efficient lights, fixtures and appliances
- Summer shading and cooling strategies
- Winter solar gain and heat retention strategies
- Integrating renewable energy technologies

Mechanical and Electrical Systems in Passive Houses

- Optimizing heat gains
 - Passive solar heat gains
 - Indoor environmental heat gains
- Heating and cooling loads
- Space conditioning
- Renewable energy system integration
- Energy-efficient appliances
- Path to net-zero or net-positive performance

Evaluating Passive House Case Studies

- Adapting Passive House for different climates
- Case studies: in the planning process, under construction and finished projects

Presented by

Christina Snyder *Architect, Builder, CPHC, PHI-accredited Certifier; Owner, Equilibrium Energy Spaces, Michigan*

Smita Chandra Thomas

Principal at Energy Shrink, LLC in Washington D.C.

Lisa White

Associate Director and a technical lead for Phius (Passive House Institute US)

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.

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Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states.

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 6.5 LU/HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sustainability (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).

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Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.