

Credit Information

These webinars are open to the public and offer 7.0 PDHs to professional engineers and 7.0 continuing education hours to architects. Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety offers HSW credit to architects in all states. SketchUp for Building Professionals offers 7.0 continuing education hours to architects licensed in states that allow non-HSW coursework.

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)). Courses approved by the AIA/CES qualify for Florida and New Jersey architects. Other states do not preapprove continuing education providers or courses. Only AIA HSW-approved courses qualify for New York engineering credit.

The American Institute of Architects Continuing Education System has approved Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety for 7.0 LU|HSW and SketchUp for Building Professionals for 7.0 LU|Elective (Sponsor No. 1232). Only full participation is reportable to the AIA/CES.

The International Code Council has approved these events for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete each event, respond to prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of each webinar are available for purchase. See course listing online 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. Self-study packages do not qualify for AIA credit.

Live, Interactive Webinars

- Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety
- SketchUp for Building Professionals

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Live, Interactive Webinars

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

- Friday, October 15, 2021 | 8:30 am - 5:00 pm CDT

SketchUp for Building Professionals

- Tuesday, October 19, 2021 | 11:00 am - 2:45 pm CDT
- Wednesday, October 20, 2021 | 11:00 am - 2:45 pm CDT

To register, view detailed presenter biographies, and see other learning opportunities, please visit:

www.halfmoonseminars.org

or call our Customer Service Department at (715) 835-5900



HalfMoon Education Live Webinars



Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

Friday, October 15, 2021 | 8:30 am - 5:00 pm CDT

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU|HSW International Code Council: .7 CEUs (Building)



SketchUp for Building Professionals

Tuesday, October 19, 2021 | 11:00 am - 2:45 pm CDT
Wednesday, October 20, 2021 | 11:00 am - 2:45 pm CDT

Credits: Professional Engineers: 7.0 PDHs
Architects: 7.0 CE Hours (non-HSW) AIA: 7.0 LU|Elective
International Code Council: .7 CEUs (Building)

To register, visit us online at

www.halfmoonseminars.org

or call our Customer Service Department at (715) 835-5900



Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

Friday, October 15, 2021 | 8:30 am - 5:00 pm CDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours
AIA: 7.0 LU | HSW International Code Council: .7 CEUs (Building)

Agenda

HVAC Codes and Standards

- State and local residential and commercial codes
- ASHRAE standards and guidelines
- Enhanced performance codes
- LEED and other “green” rating systems

Sustainability Metrics

- Source to site Energy efficiency
- Operational efficiency

Indoor Environmental Quality

- Establishing and maintaining thermal barriers
- Passive ventilation vs mechanical ventilation
- Air filtration and air purification
- Improving interior air quality

Protection from COVID-19, Other Infections Aerosols, Allergens and Pollutants

- Airflow basics Strategies for capturing airborne particulate
- Strategies for hardening buildings against the next pandemic

HVAC Systems, Design Considerations, and Options

- HVAC load calculations (Trace 3D example)
- Building/site, spaces, and zoning
- Evaluating equipment and selection criteria
- Sizing variable capacity systems

Economics of Engineering, Energy Efficiency, and Indoor Environmental Quality

- First cost vs life cycle cost
- Typical incentive options
- Financing mechanisms
- Less tangible economic impacts

HVAC Building System Controls (High Level)

- Control system fundamentals
- Basic control strategies
- Control strategies for high performance

21 USADHVAC 10 15 WEBR BA

SketchUp for Building Professionals

Tuesday, October 19, 2021 | 11:00 am - 2:45 pm CDT (incl. a 15-min break)

Wednesday, October 20, 2021 | 11:00 am - 2:45 pm CDT (incl. a 15-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 CE Hours (non-HSW)
AIA: 7.0 LU | Elective International Code Council: .7 CEUs (Building)

Agenda Day One

Introduction to SketchUp

- Overview of software features
- SketchUp vs. AutoCAD, Revit, and other software

Working with SketchUp

- File creation
- User interface
- Basic navigation
- Drawing tools
- Measure tools
- Construction lines

Organizing Your Drawings

- Working with groups and layers
- Creating, editing, and using components

Coloring, Texturing and Advanced Editing

Agenda Day Two

Viewing, Rendering and Working with Extensions

- Viewing and navigating your drawing
- Printing, rendering and exporting
- Using SketchUp extension warehouse
- Adding locations to your drawing
- Modeling architectural details
- Working with styles, style builder and LayOut
- Presenting the final model

21 USSUP4B1 10 19 WEBR AM - 21 USSUP4B2 10 20 WEBR AM

To register and to see other learning opportunities, please visit:

www.halfmoonseminars.org

or call our Customer Service Department at (715) 835-5900

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of these webinars are available for purchase. Visit these course listings on our website 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. Self-study packages do not qualify for AIA credit.

Faculty

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

Blair Richardson, P.E., CEM, LEED *BL Companies*

Mr. Richardson has over 12 years of experience in building design and construction. His focus has been bringing energy efficiency, sustainability, and resiliency together in every project. Reducing energy use through strategic and targeted energy conservation measures Mr. Richardson have been able to show clients how sustainability can improve their bottom line; utilizing tax credits, rebates, and incentives to reduce the cost of capital projects. He has a strong background in design-build and the integrated design process. Throughout his career he has worked with architects, engineers, contractors, commissioning agents, and owners to facilitate successful projects. Mr. Richardson earned his B.S. degree from the University of Maine in Mechanical Engineering Technology. He is a licensed professional engineer in five states, a Certified Energy Manager, and LEED accredited professional (in addition to other certifications). He serves on the board of directors for the Connecticut Chapter of ASHRAE, as well as heading several committees; is an active member of the National Society of Professional Engineers; is a past director for a regional non-profit; is a corresponding executive committee member for the Housatonic Boy Scout Council; and is an avid outdoorsman.

SketchUp for Building Professionals

Severin Villiger has been teaching 3D rendering and 3D modeling (SketchUp and Revit) since 2006. He has taught for the Art Institute of Portland, Heritage School of Interior Design, and has presented in-house workshops for architectural, interior design, and landscape architecture firms of all sizes. He has a BS degree in Interior Design, and enjoys using his passion and skill for interior and architectural design to help design professionals transition into the 3D world using SketchUp and Revit.

Additional Learning

Retaining Wall Design and Slope Stabilization Techniques

- Wed, Sept 15, 2021 | 8:30 am - 5:00 pm CDT

Managing Construction Projects

- Mon, Sept 20, 2021 | 8:30 am - 4:30 pm CDT

Structural Forensic Engineering

- Mon, Sept 20, 2021 | 8:30 am - 4:30 pm CDT

Stormwater Best Management Practices

- Mon, Sept 20, 2021 | 8:30 am - 5:00 pm CDT

Landscaping for Pollinators

- Thurs, Sept 23, 2021 | 10:00 am - 12:00 pm CDT

Foundations in Cold Regions

- Thurs, Sept 23, 2021 | 11:00 am - 2:15 pm CDT

- Fri, Sept 24, 2021 | 11:00 am - 2:15 pm CDT

The Arborist Short Course: Advanced Tree Knowledge for Better Tree Care

- Fri, Sept 24, 2021 | 7:30 am - 3:30 pm CDT

Designing and Constructing a Net-Zero Energy Home

- Mon, Sept 27, 2021 | 8:30 am - 12:45 pm CDT

- Tues, Sept 28, 2021 | 8:30 am - 1:15 pm CDT

Drones in Construction

- Tues, Sept 28, 2021 | 9:30 am - 5:00 pm CDT

A Roadmap to Ethical Issues in Construction: A Primer for Design Professionals

- Wed, Sept 29, 2021 | 11:00 am - 1:00 pm CDT

Soil Mechanics, Bearing Capacity and Slope Stabilization in New England

- Thurs, Oct 7, 2021 | 7:30 am - 3:30 pm CDT

Soil Testing, Properties and Uses

- Wed, Oct 13, 2021 | 10:00 am - 12:00 pm CDT

International Building Code 2021

- Thurs, Oct 14, 2021 | 8:00 am - 4:00 pm CDT

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

- Fri, Oct 15, 2021 | 8:30 am - 5:00 pm CDT

Parking Structure Design, Construction, and Maintenance

- Fri, Oct 15, 2021 | 8:00 am - 3:30 pm CDT

For more information and other online learning opportunities visit: **www.halfmoonseminars.org**