Exterior Wall Technology & Science

Course information

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Course Description

This course provides basic exterior wall technology and terminology that will be used as the fundamental base for future exterior wall course offerings. The course covers a broad range of topics, including types and functions of exterior walls, psychometrics and moisture movement, design objectives and building code requirements, wall penetrations, materials, coatings and water repellants, and sealants. This broad course is aimed at those preparing to expand their knowledge into exterior walls and at those already practicing in this area who want to further develop their knowledge in exterior wall technology.

IIBEC Core Competency Tag(s): Exterior Wall

Knowledge Level: Intermediate

Prerequisite Knowledge Recommended

A baseline understanding of general construction related to wall assemblies including foundation elements (which support wall assemblies) and terms should be understood such as Mass Wall Construction, Curtainwall, Storefront, Fenestration, Weather Restrictive Barrier (WRB), International Building Code (IBC).

Learning Objectives

At the conclusion of this activity, the learner will be able to:

1. Explore building code requirements for exterior walls will be covered during the course.

2. Explain the proper use of coating, water repellents and sealants will be discussed during this course, including proper materials, substrate, preparation and installation.

3. Discuss psychometrics and moisture movement and why moisture migration is so important in wall design.

4. Identify proper designs for wall penetrations as well identify problems that are created by poor design details.

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Continuing Education Logos and Statements

This course has been approved for 16.0 IIBEC Continuing Education Hours

This course has been approved for 16.0 AIA LU|HSW

AIA Course Number: EWTS_2025_L
AIA Provider Number: G024

AIA CES Provider statement

IIBEC is a registered provider of AIA-approved continuing education under Provider Number G024. All registered AIA CES Providers must comply with the AIA Standards for Continuing Education Programs. Any questions or concerns about this provider or this learning program may be sent to AIA CES (cessupport@aia.org or (800) AIA 3837, Option 3). This learning program is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product. AIA continuing education credit has been reviewed and approved by AIA CES. Learners must complete the entire learning program to receive continuing education credit. AIA continuing education Learning Units earned upon completion of this course will be reported to AIA CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

Course Components

In addition to the course presentations, registrants are provided access to the virtual course materials in LearnUpon- IIBEC's Online Learning Platform- providing access to the following:

- Notetaking Outline: A notetaking outline is available in LearnUpon for registrants to download prior to the start of the course.
- Course Evaluation & Attestation Survey: Available at the conclusion of the course.
- Certificate of Completion: After completing the course evaluation survey, registrants are able to download a Certificate of Completion.