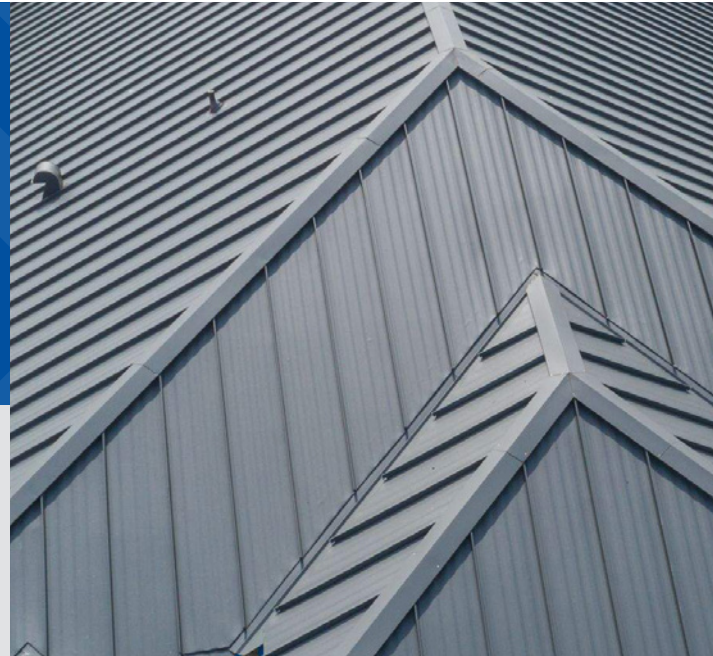




Drexel Metals and Carlisle Construction Materials recognize that continuing education is crucial to advancing and improving the industry. CCM University offers on-demand e-Learning courses that are approved for AIA & IIBEC accreditation and can be taken by industry professionals looking for continuing education opportunities. CCM University has courses to fit your learning preference, including Lunch & Learn programs, e-Learning courses, and webinars with live Q&A sessions. Visit [DrexelMetals.com](http://DrexelMetals.com) for more information.



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## THE ART OF METAL WALL PANEL DESIGN

### COURSE OVERVIEW:

In this program, participants will explore the world of metal wall panels, focusing on practical knowledge and skills. This course will describe the essentials of metal wall design, including color, dimension, and contours. Key attributes that make metal wall panels a preferred choice among industry professionals will be discussed. Participants will gain insights into successful installation techniques for wall panels and accessories.

### LEARNING OBJECTIVES:

- Analyze the fundamental elements of metal wall panel design, including color selection, dimensional considerations, and contour planning, to create aesthetically pleasing and functional designs.
- Understand the distinctive product attributes of metal wall panels that make them a preferred choice within the industry, demonstrating a comprehensive understanding of their advantages and applications.
- Demonstrate basic proficiency in the installation of metal wall panels and associated accessories by applying industry best practices, ensuring successful and durable project outcomes.
- Identify the manufacturing process of metal wall panels, including materials selection, fabrication techniques, and quality control measures, to gain a comprehensive insight into the production aspects of these architectural components.

<b>AIA PROVIDER NUMBER</b>	K031
<b>AIA PROGRAM NUMBER</b>	MTL303-DRX
<b>COURSE LENGTH</b>	1 HOUR
<b>COURSE ACCREDITATION</b>	1 AIA LU/Elective 1 IIBEC CEH
<b>EDUCATION CONTENT</b>	Intermediate



## MAKING THE EDUCATED CHOICE - METAL ROOFING TODAY

### COURSE OVERVIEW:

This course provides an overview of standing seam metal roofing, including types of substrates, how systems are assembled, the technology behind the paint systems, types of metal panel systems, available warranties, and the many design choices that metal roofing offers.

### LEARNING OBJECTIVES:

- Review the history of metal roofing and its longevity and long-term value.
- Learn about the environmental benefits and advantages of metal roofing.
- Identify and compare different substrates used in metal roofs.
- Identify and compare different coatings, paints, primers, and applications.

## SUSTAINABLE DESIGN - IDEAS USING METAL ROOFING

### COURSE OVERVIEW:

This course will touch on the environmental benefits of installing metal and tools to find state incentives, as well as solar output, system sizing, tracking results, and the process of properly designing a solar metal roof system.

### LEARNING OBJECTIVES:

- Identify ways to reduce the carbon emissions/footprint utilizing metal roofing.
- Define cool metal roofing, how it works, and the cool roof incentive programs.
- Discuss the expected lifecycle of metal roofing and the documented durability of the system.
- Discuss metal roofing, LEED, solar, and the tools that can be used to simplify design and calculations.

## UNDERSTANDING METAL ROOFING ENGINEERING AND TESTING

### COURSE OVERVIEW:

This presentation details each test that is performed on a metal roof system and how they actually apply to the real world. There will be an in-depth look at the impact of wind speed, pressure, and exposure, as well as the importance of designing a roof system that can withstand the design pressures acting on the roof and wall.

### LEARNING OBJECTIVES:

- Identify top testing labs.
- Take an in-depth look at wind uplift tests and testing procedures.
- Discuss the similarities and differences of UL 580 and ASTM 1592.
- Discuss wind speed versus design pressure.

<b>AIA PROVIDER NUMBER</b>	K031
<b>AIA PROGRAM NUMBER</b>	MTL101-DRX-24
<b>COURSE LENGTH</b>	1 HOUR
<b>COURSE ACCREDITATION</b>	1 AIA LU/HSW 1 IIBEC CEH
<b>EDUCATION CONTENT</b>	Beginner



<b>AIA PROVIDER NUMBER</b>	K031
<b>AIA PROGRAM NUMBER</b>	MTL302-DRX-24
<b>COURSE LENGTH</b>	1 HOUR
<b>COURSE ACCREDITATION</b>	1 AIA LU/HSW 1 IIBEC CEH
<b>EDUCATION CONTENT</b>	Intermediate



<b>AIA PROVIDER NUMBER</b>	K031
<b>AIA PROGRAM NUMBER</b>	MTL601-DRX-24
<b>COURSE LENGTH</b>	1 HOUR
<b>COURSE ACCREDITATION</b>	1 AIA LU/Elective 1 IIBEC CEH
<b>EDUCATION CONTENT</b>	Advanced





## ALL ABOUT THE EDGE

### COURSE OVERVIEW:

An introduction to the design, testing, and performance of edge metal systems for low-slope roofs. This presentation will go over the basics of edge metal, describe the importance of the perimeter edge in relation to the total roof system, explain the history behind metal roof edge standards such as ANSI/SPRI/ES-1, discuss detail updates to roof edge standards, and explain performance and test ratings/protocol.

### LEARNING OBJECTIVES:

- Understand the importance of a quality perimeter roof edge.
- Understand the ANSI/SPRI/FM-4435 ES-1 standard.
- Understand test protocols that are followed and how performance ratings are established.
- Understand how to specify certified edge metal and how to ensure it meets the IBC standards.

<b>AIA PROVIDER NUMBER</b>	K031
<b>AIA PROGRAM NUMBER</b>	MTL301-DRX-24
<b>COURSE LENGTH</b>	1 HOUR
<b>COURSE ACCREDITATION</b>	1 AIA LU/HSW 1 IIBEC CEH
<b>EDUCATION CONTENT</b>	Intermediate
