



# Electronic Leak Detection for Roofing, Waterproofing and the Building Envelope

1 AIA LU | HSW / 1 IIBEC CEH

## Learning Objectives:

1. Recognize the differences between the four electronic testing methods for roofing and waterproofing membranes.
2. Understand the capabilities and limitations of electronic leak detection (ELD) as outlined in ASTM Guide D7877 & ASTM Practice D8231.
3. Identify potential future design and construction failures based on analyzed data from real time construction monitoring.
4. Distinguish different applications for fully monitored embedded leak detection systems and how they function.

This one hour course will cover Electronic Leak Detection (ELD) testing methods used for quality assurance of roofing and waterproofing membranes. Participants will learn about the principles outlined in the ASTM Standard Guide D7877 and ASTM Standard Practice D8231 and will be able to identify which assemblies are compatible with electronic testing and active monitoring.

## Presentation Outline

**Physics of ELD Testing**

**ELD Methods**

**Valid ELD Assemblies**

**Conductive Mediums**

**Fully Monitored Systems**

**Case Studies**

