

The American Institute of Architects Continuing Education System

AIA/CES Registered Provider Program Summary Handout



Provider: DuPont Building Innovations

Program #: Moisture 1

Program: Moisture Management in Commercial
Building Enclosures - 1

Length: 1 hour

Credits: 1 LU Hour

HSW: Yes

SD: Yes

Description:

Moisture is the most significant factor in the premature deterioration of buildings. Moisture can damage materials directly, but it can also reduce the effectiveness of building materials. Excess moisture is also the major factor in the growth of mold. The most common contributing factors to moisture problems in buildings include:

- Lack of understanding of building science principles
- Design related factors, *e.g.*, lack of sufficient details in the drawings
- Installation related factors, *e.g.*, improper materials substitutions, lack of installer training, and lack of inspection during construction

This seminar will discuss the moisture sources in buildings (construction moisture, interior moisture due to occupant use, or exterior moisture), moisture transport mechanisms as bulk water and as water vapor, and moisture control strategies. Special emphasis is given to rain penetration which is the leading cause of water problems in walls. The building science principles behind the moisture-control strategies and a comparison of water, air and vapor barriers are also addressed.

Learning Objectives: After attending this seminar, you will be able to understand

1. The impact and potential liabilities of moisture intrusion
2. The main moisture sources and the moisture transport mechanisms
3. The 3 Barriers for protecting against bulk water and moisture vapor migration
4. The difference between Water, Air and Vapor Barriers

Target Audience: Architects, Design Professionals, Specifiers, Owners, Contractors, Code Officials, Building Envelope Consultants, and Students. This program meets every experience level with time designed into the program for questions and answers.

