

# Georgia

## Weatherization Techniques

### 3-Hour CE

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#### COURSE SYLLABUS

Students successfully completing this three hour course will gain confidence in their ability to reduce building envelope failure using proven methods of construction. Building homes that are well protected from the weather is important for all building professionals. The majority of problems stem from improper procedures and workmanship. Sometimes a problem is found in the design of a home, adding to disputes over poor workmanship. The very best defense against moisture issues in a home is in training the workforce in how moisture enters into the internal structural areas of a home and what procedures to use in the many tasks involved to head off these problems.

#### Chapter 1- Building Exterior Shell Training

***\*Learning Objectives:*** 1) Recognize the mistakes that frequently occur, causing building envelope failure. 2) Understand the ramifications of claims made against contractors. 3) Be able to determine what the contractor's responsibilities are.

1. Rationale
2. Primary Warranty and Insurance Claims
3. Solutions
4. Experience

5. Contractor Responsibilities
6. Insurance Availability and Affordability

## **Assessment**

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### **Chapter 2- Building Envelope System**

**\*Learning Objectives:** 1) Define what components make up the building envelope. 2) Understand the objectives or purpose of the building envelope. 3) Recognize and then prevent the causes behind "Building Envelope Failure".

1. Building Envelope System
2. Performance Objectives
3. Physical Components
4. Sources of Moisture Intrusion
5. Results of Failure

## **Assessment**

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### **Chapter 3- Foundation Construction**

**\*Learning Objectives:** 1) Recognize what causes most moisture/wet basement issues. 2) Know the minimum slope of grade around the building foundation. 3) Understand the purpose of vapor barriers under a floor slab.

1. Thermal and Moisture Protection

2. Groundwater
3. Gutters
4. Crawl spaces
5. Damp proofing and Waterproofing
6. Girders and Beams

## **Assessment**

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### **Chapter 4- Wall Construction**

***\*Learning Objectives:*** 1) Be able to identify the major causes of high humidity in homes. 2) Understand the purpose of house wrap and how it is installed. 3) Know how to install flashings and where to caulk. 4) Know the minimum lap for fiber cement siding and how joints should be treated.

1. Wall Framing
2. Vapor Diffusion Problems
3. Recommendations
4. House Wrap and Underlayment
5. Window and Door Openings
6. Flashing and Caulking
7. Siding

## **Assessment**

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## Chapter 5- Roof Construction

**\*Learning Objectives:** 1) Be able to explain how moisture penetrates roofs and ceilings. 2) When installing valley flashing, understand the minimum lap required. 3) Know what a saddle is and when it is required. 4) Understand the requirements surrounding ice barriers.

1. Skylights
2. Moisture Penetration
3. Roof Valleys
4. Shingles and Shakes
5. Roof Sheathing
6. Repairs
7. Flashing

## Assessment

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## Chapter 6- Window and Door Installation

**\*Learning Objectives:** 1) Describe how to properly flash a window. 2) Understand the steps taken during preparation of a window or door opening. 3) Know why, when and where to caulk a head flashing.

1. Windows, Doors and Skylights

2. Proper Flashing
3. Door and Window Installation

## **Assessment**

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### **Chapter 7- Ventilation System Installation and Requirements**

**\*Learning Objectives:** 1) Define the purpose of ventilation. 2) Know the minimum amount of ventilation for crawl-spaces and attics. 3) Describe "rafter-vents", where they are located and their purpose.

1. Code
2. Attic Ventilation
3. Heating, Ventilation and Air Conditioning

## **Assessment**

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### **Chapter 8- Building Envelope Best Practices**

**\*Learning Objectives:** 1) Describe a "capillary break", and identify what type of material is used to create one. 2) Understand the basic principles of above grade exterior shell construction: flashings, windows, doors, siding, etc. 3) Know what a flashing "kick-out" is and where you should install one.

1. Moisture Retarding Construction
2. Capillary Breaks
3. House Wrap Installation

4. Window and Door Installation
5. Siding Installation
6. Roofing Best Practices

### **Assessment**

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## **Chapter 9- Consumer Remedies**

***\*Learning Objectives:*** 1) Recognize many of the frequently made consumer mistakes. 2) Be aware of preventative measures that should be taken by both the consumer and the contractor. 3) Understand contractor responsibilities, and consumer remedies.

1. Common Mistakes
2. Preventative Measures
3. Warranties
4. Complaints
5. Arbitration and Dispute Resolution

### **Assessment**

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Course instructors will be available by email or telephone between 9am and 5pm Eastern Standard Time. They will assist you with questions regarding course content.

If you have any questions, please call us at 1-800-727-7104 or send an email to [info@licensetobuild.com](mailto:info@licensetobuild.com). Email responses will usually be returned promptly, but guaranteed within one business day.

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