

COURSE SYLLABUS

Provider: Program for Resource Efficient Communities
University of Florida
PO BOX 110940
Gainesville, FL 32611-0940

Provider #: 0001129

Course Name: Florida Building Code Advanced Training: Residential Roofing-
Shingles

Classroom Hours: 2

Course Description:

This course reflects roofing provisions of the *2004 Florida Building Code, Residential*, the *2004 Florida Building Code, Building* and the *2004 Florida Existing Building Code*, as of October 2005.

Course Objectives:

To become familiar with Florida Building Code requirements and possible reasons for roofing failures in high wind conditions.

Course Outline / timeline

- 1) Explanation, history, mission, and recent activities of RICOWI (Roofing Industry Committee on Wind Issues) and WIP (Wind Investigation Program) – 10 minutes
- 2) Findings of the WIP on events believed associated with initiation of wind damage on roofs –10 minutes
- 3) FBC roofing related codes – 6 minutes
 - a) Powers and duties of building official
 - b) Permits
 - c) Information on drawings related to wind
 - d) Roof assembly documents
 - e) Plan review criteria
- 4) Inspections – 8 minutes
 - a) framing inspection
 - b) sheathing inspection
 - c) roofing inspection
- 5) Roofing definitions –2 minutes
- 6) Structural design requirements and definitions 10 minutes
- 7) Weather protection – 10 minutes

- a) flashing
 - b) coping
 - c) roof drainage – gutters, scuppers, sizing, termite prevention provisions
- 8) Performance requirements – 8 minutes
- a) wind resistance
 - b) fire classifications
 - c) compatibility of materials
 - d) material specifications and physical characteristics
- 9) Asphalt shingles – 26 minutes
- a) component requirements
 - 1) materials
 - 2) deck
 - 3) underlayment
 - 4) flashing
 - 5) fasteners
 - 6) attachment
 - b) insulation
 - c) ventilation
- 10) Florida Existing Building code – 10 minute
- a) Reroofing
 - b) loads
 - c) recovering vs. replacement
 - d) reinstallation
 - e) flashings

Evaluation Method:

Students will be offered opportunity to provide oral and written questions and comments to facilitate course and instructional improvement.