

# Detailed Course Outline

## **Course Name:**

Residential Roofing and Hurricanes

### **1. Overview**

- a. Characteristics of hurricanes
- b. Wind-borne debris
- c. RICOWI/DOE/ORNL agency involvement
- d. Florida's demographics

### **2. Aerodynamics/wind and structural interaction**

- a. Definitions/descriptions
- b. Roof types
- c. Roof coverings

### **3. In-depth look at individual roof coverings**

(includes mechanisms for failure and select Code-related requirements)

- a. Tile
- b. Metal
- c. Asphalt/composite shingles
- d. Wood

### **4. Summation**

- a. Independent testing organizations
- b. Useful websites
- c. Evaluation