

Common Course Numbering System

Your current Institution is CCCS

Searching Current Courses For Summer 2015

Course: ENY 130

Title: Solar Photovoltaics Grid-tie

Long Title: Solar Photovoltaics Grid-tie

Course Description: Teaches the principles of a residential solar photovoltaic system. Site evaluation, system design, panel installation, wiring, grounding, bonding and commissioning are included in this course.

Min Credit: 2

Max Credit:

Course Notes: Entered new course 5/2/08 s@
Origin Notes: RRCC

STANDARD COMPETENCIES:

- I. Describe proper safety techniques
- II. Demonstrate a solar site analysis
- III. Compare photovoltaic components
- IV. Construct a complete solar system

TOPICAL OUTLINE:

- I. Safety techniques
 - A. Harnesses
 - B. OSHA
 - C. Tie-offs
 - D. NEC and UL
 - E. Ladders
 - F. Electrical safety
- II. Solar site analysis
 - A. Shading
 - B. Location
 - C. Balance of system
 - D. Orientation

III. Photovoltaic components

- A. Panels
- B. Inverters
- C. Wiring
- D. Disconnects

IV. Construct a complete solar system

- A. Roof mounting systems
- B. Wiring
- C. Wiring
 - 1. sizing
 - 2. grounding and bonding
 - 3. conduit
 - 4. trays
- D. Commissioning

RELEASE: 8.5.3

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