Common Course Numbering System

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's 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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