Understanding Code Requirements in Commercial Photovoltaic Systems

AN IN-DEPTH TRAINING OPPORTUNITY INTENDED TO INCREASE OVERALL UNDERSTANDING OF NEC & OREGON PV CODES

The Commercial PV Systems course provides participants with knowledge of the NEC requirements to ensure consistent and uniform installation and inspection methods for Photovoltaic (PV) systems. An emphasis is placed on installations, permitting and inspection of commercial sized systems.

The course is intended for code enforcement officers, building officials, engineers, designers and electrical contractors. Upon completion of the class, the participants should be able to identify proper design and installation techniques.

COURSE PREREQUISITES

Participants in Section 1 should have a working knowledge of the 2005 NEC and general understanding of PV systems.

Section 2 may be taken without Section 1 if participant can properly distinguish acceptable PV array components, calculate PV power output for varying environmental conditions, analyze a location for the solar resource and interpret the major sections in NEC Article 690.

EVENT DETAILS

Registration Deadline: 1-week prior | Cost: $80 **(2nd Session Only = $50)**

Only light refreshments will be served. Lunch is on your own.

- Tuesday, July 15th –All Day– Rogue Community College Table Rock Campus, Rm 124, 7800 Pacific Avenue, White City, OR
- July 21st 1pm-5pm (section 1) & July 22nd 8am-12pm (section 2) Solarworld | 25300 NW Evergreen Rd, Hillsboro, 97124
- Thursday, September 18th –All Day– Central Oregon Community College, Bend, OR
- November 6th 1pm-5pm (section 1) & November 7th 8am-12pm (section 2) Mid Willamette Valley – Location TBA

For more information, contact Northwest Energy Education Institute toll-free at:

1-800-769-9687 or online **www.nweei.org**

Register online at: www.nweei.org and click "Register Today!"

Improve your understanding of the 2008 NEC and Oregon code requirements as they pertain to Photovoltaic installations.

Increase overall proficiency in proper design and installation techniques.

COURSE LENGTH: 8 HOURS

Eligible for Continuing Education Credits!

SECTION 1 (4 hours total)

- Introduction to PV Systems (1.5 hrs)
  - PV Basics
  - Solar Resource
  - System Components
- Codes and Standards (2.5 hrs)
  - UL/IEEE/ORS
  - NEC

SECTION 2 (4 hours total)

- Summary of PV electrical issues (1 hr)
  - NEC Article 690
- Permit guidelines for both small scale and commercial PV systems (1 hr)
  - Case studies form counties and municipalities
  - Suggested Practices
- Inspection guidelines for PV (1 hr)
  - Inspection checklist
- Case Studies (1 hr)
  - Design analysis

co-sponsors

Building Codes Division

Working with Oregonians to ensure safe building construction while supporting a positive business climate.

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