



Winter 2011

Electrical Pre-Apprenticeship Program Solar PV Introduction

Prepare for the future of sustainable energy with a job in the electrical and renewable energy sector!

This program is designed to assist students to launch a career in the electrical trade and/or the solar photovoltaic (PV) field. The training will include 90 hours (15 weeks) of lecture and hands-on lab experience. **As part of the training job placement is provided as positions become available .**



COURSE LEARNING OUTCOMES:

- Maintain job-site safety, according to OSHA safety codes.
- Be come familiar with blueprints and circuit layouts.
- Comprehend simple circuits and troubleshooting.
- Introduction to the National Electrical Code (NEC) .
- Communicate succinctly, accurately and effectively with others.
- Recognize basic terminology associated with electrical construction / solar PV industry.
- Describe a site assessment and understand the application of the resulting information.
- Basic tool recognition and safety.
- Become familiar with the different configurations of solar PV systems and their applications (mechanical design).
- Obtain placement on “eligible for work list” as an entry level R-1 classified electrician.

The Solar Energy sector has seen an average annual growth of 25% for the past 10 years.

Still a young technology, skilled installers are in high demand.

COURSE CERTIFICATIONS:

- CPR/AED/First Aid
- OSHA 10-hour
- JATC Pre-Apprentice Certificate of Completion

Completion of the program may lead to placement in the electrical field or in a traditional electrical apprenticeship program, employment in the solar photovoltaic industry, or other applicable green/renewable energy opportunity.

CLASSES START Late Spring 2012.
*Tuition paid through the
Maryland Energy Sector Partnership.*



**GO SOLAR TRAINING
FOR NEW AND
ENTRY-LEVEL WORKERS**

*Course includes
training, books,
tools, and uniform.*



To learn more about Go Solar Training,
or to attend an INFORMATION Session:

**E-mail: greenjobs@aawdc.org
or call 443-270-0528**

Course Work

Electrical

- Introduction to basic electricity and electrical theory
- Electrical materials, fasteners, blue prints and building codes
- Commercial and residential wiring, conduit bending and circuit layouts
- Troubleshoot and repair electrical systems
- Entrance calculations, transformers and grounding requirements
- Simple circuits
- The National Electrical Code (NEC)
- PV systems

Solar PV

- Solar Fundamentals
- Site Assessment
- Systems Performance
- PV Modules
- System Components
- System Design
- Mechanical Design
- Code and Safety
- Review – North American Board of Certified Energy Practitioners (NABCEP) Entry Level Exam



Training Provided by:
The International Brotherhood of Electrical Workers L.U. No. 26, Joint
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