



North American Board of  
**NABCEP**  
Certified Energy Practitioners

**IMTI**  
**Waterbury, CT**



**GROW YOUR FUTURE  
WITH SOLAR!**



**NCCER**  
National Center for Construction  
Education and Research



**IMTI**  
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**[www.IMTI.edu](http://www.IMTI.edu)**

**SOLAR PV  
APPRENTICESHIP  
TRAINING PROGRAM**

# Program

This program covers the basics of Electrical Theory and safety training including a 30 hour OSHA construction safety card and training specific to SOLAR PV Installation for System Components, Design Considerations, Site Analysis, System Installation, and Maintenance and troubleshooting.

Provides the student with all the related instruction required by the State of CT, and the requisite knowledge to obtain the North American Board of Certified Energy Practitioners (NABCEP) PV Installer Certification.

Graduates will be eligible to take the NABCEP Entry Level exam at our IMTI facility.

Students interested in continuing their education as an electrician in the State of Connecticut will have completed 481 hours towards their electrical apprenticeship education.

Day classes meet 4 days a week, complete in 5 months..

**Night classes meet 3 days a week, complete in 10 months.**

**Placement Assistance.**



# Facility



Classroom and hands-on training facility

Fully functioning stand alone 2K PV system with inverter and battery back-up provides lighting to the training area.

Roof top array as well as interior demonstration units.

# Approvals

State of Connecticut Department of Labor

State of Connecticut Department of Higher Education

WIOA (Workforce Innovation & Opportunity Act)

NABCEP (North American Board of Certified Energy Practitioners)

NCCER (National Center for Construction Education and Research)

**Graduates will have all the school hours necessary for a State of Connecticut Solar Electric PV2 License.**



## Solar Photovoltaic Systems Installer Curriculum

### CORE CURRICULUM

00101-V6 Basic Safety	30 Hours
00102-V6 Intro to Math	10 Hours
00105-V6 Intro to Drawings	10 Hours
00106-V6 Intro to Rigging	10 Hours
70101-15 Your Role in Green	15 Hours

### ELECTRICAL LEVEL 1

26103-20 Intro to Circuits	10 Hours
26104-20 Electrical Theory	10 Hours
26105-20 Intro to NEC	8 Hours
26106-20 Device Boxes	10 Hours
26107-20 Hand Bending	13 Hours
26108-20 Wireways, Raceways	22 Hours
26110-20 Basic Electrical Docs	8 Hours
26111-20 Residential Wiring	16 Hours

### ELECTRICAL LEVEL 2

26201-20 Alternating Current	20 Hours
26204-20 Conduit Bending	18 Hours
26207-20 Cable Tray	8 Hours
26209-20 Grounding & Bonding	17 Hours
26210-20 Circuit & Fuses	17 Hours

### ELECTRICAL LEVEL 3

26301-20 Load Calculations	22 Hours
26302-20 Conductor Selections	18 Hours
57101-11 Intro to Solar	40 Hours
26304-20 Hazardous Locations	29 Hours
26308-20 Commercial Electrical	10 Hours

### ELECTRICAL LEVEL 4

26401-20 Load Calculations	23 Hours
26403-20 Standby & Emergency	10 Hours
26406-20 Specialty Transformers	12 Hours
26409-20 Heat Tracing & Freeze	10 Hours
26411-20 Medium-Voltage	12 Hours
26412-20 Special Locations	20 Hours
46101-20 Fundamentals of Crew	23 Hours

**Total Hours 481**