SOLAR ENERGY TECHNOLOGY TRAINING PROGRAMS

Through a grant from the U.S. Department of Energy, Roxbury Community College has already built the capacity and the infrastructure necessary to offer customized training in solar energy technology to meet the changing demands of employers, as well as the career opportunity needs of residents from the neighborhoods that RCC traditionally serves to become active participants in the emerging green economy.

Solar Energy System Technician Training (3 courses)

1. Electricity for Renewable Energy Technicians

   CSA 815; $250.00; 8 weeks;
   Day Session: Tues: 9:00 AM-Noon
   Evening Session: Wed: 5:30PM-8:30PM

   This course reviews the basic theory of electricity including AC/DC power, series and parallel circuitry applications and measurements within typical renewable energy systems. Students are also introduced to solar electrical components, including PV, inverters, controller, and different types of energy storage systems. This course is also designed to introduce students to the National Electric Code and to basic renewable energy systems - how they function and work. Electricians as well as other trade professionals seeking to be acquainted with the electrical circuitry as it applies to renewable energy are welcome.

2. Fundamentals of Solar Energy and PV Installation

   CSA 564: Cost: $525.00; 12 weeks
   Day Session: Thur: 9:00 AM-Noon;
   Evening Session: Tues: 5:30PM-8:30PM

   This hands-on training course, offered on-site, prepares participants for a career in solar energy applications and PV system installation. Training includes code and regulations, safety procedures, and PV system installation. This course offers program participants a unique opportunity to fully apply the theory and skills learned in the Electricity for Renewable Energy course, such as wiring size and electrical circuitry, as well as energy storage, inverter, controller installation and operation.

3. Solar System Design

   CSA 565: Cost: $225.00; 8 weeks
   Day Session: Wed: 9:00 AM-Noon
   Evening Session: Thur: 5:30PM-8:30PM
This course which combines online resources and class-room applications provides participants the resources and the skills necessary to determine photovoltaic system sizing, for site analysis, for roof measurement, and for system installation. Students will learn how to perform client solar energy need assessment while being introduced to PV system drawings, system requirements calculations, and documentation.

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Solar System Diagnosis & Maintenance Training

*CSA 566: Cost: $300.00; 3 Saturdays*
*Weekend Session: Saturday: 9:00 AM-1 PM*

This intensive three-day training focuses on providing current solar energy practitioners the tools and techniques they need to adequately troubleshoot and repair existing solar systems. This includes PV orientation, faulty connections, terminals, and wiring.

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Workshop for the Future Renewable Energy Professionals

*CSA 567: Cost: $150.00; 1 week (2 fall sessions: Oct 15, Dec 10)*
*Afternoon Session: Tuesday & Thursday: 4:00 PM-5:30 PM*

This two-day workshop is offered mainly to local high school students in an effort to introduce them to the benefits and advantages of the clean energy technology. Topics range from energy types to renewable energy equipment recognition and use to clean energy to renewable energy generation.