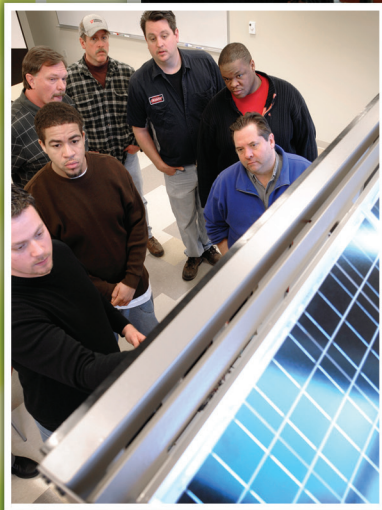


# Solar Photovoltaic (PV) Electric Systems

## 60-hour Intensive — NABCEP Entry Level



Learn the fundamentals of solar photovoltaic (PV) system design and installation in this 60-hour intensive workshop designed for those interested in the expanding PV industry – including builders, electricians, architects, code officials, construction- and energy-related business owners, teachers, attorneys and elected officials.

Participants will gain a technical foundation in stand-alone and grid-tied code compliant solar electric systems. The content follows the North American Board of Certified Energy Practitioners (NABCEP) learning objectives. Successful completion of this PV course offered by HACC also allows students to take the NABCEP PV Entry Level Exam, which will be offered following the workshop.

Topics to be covered include:

- PV markets and applications
- Electricity and safety basics
- PV module fundamentals
- Hands-on solar workshop
- PV system components and sizing
- PV mechanical and electrical design
- Performance analysis and troubleshooting
- Conservation and efficiency practices
- Course review and test prep

*The course costs \$1200, includes text, materials, and fee for taking the NABCEP PV Entry Level Exam. Standalone fee for the NABCEP Entry Level Exam is \$110.*

*Classes meet at HACC's Midtown 2 site at 1500 N. Third St., Harrisburg.*

*For more information and questions about accommodations in the vicinity, contact Cheryl Deitz, coordinator, HACC Workforce and Economic Development Division, at 717-221-1338 or via e-mail at [chdeitz@hacc.edu](mailto:chdeitz@hacc.edu)*

[www.hacc.edu](http://www.hacc.edu)

