

Solar Photovoltaics

LI SOLAR PHOTOVOLTAIC SYSTEMS INSTALLER



- 217.5 Hours (Includes 72.5 hours of Core Curriculum, which is a prerequisite for Level 1 completion and must be purchased separately. See p. 14 for ordering information.)
 Published: 2011
- Developed using NABCEP's PV Task Analysis and aligned with NABCEP's PV Installer Certification.
- Downloadable instructor resources that include module tests, PowerPoints[®], and performance profile sheets are available at www.nccer.org/irc.
- Introduction to Solar Photovoltaics (Module 1D 57101-10) has been approved for 40 general continuing education hours under GBCI's Credential Maintenance Program.
- NCCER is a recognized accrediting body for institutions to become providers of the NABCEP Entry Level Exam.
- This craft requires additional instructor qualifications. For more information, contact NCCER Customer Service at 1-888-622-3720 or visit the craft page at nccer.org.

PAPERBACK

Trainee Guide: \$67

Instructor's Guide: \$67

.....

MODULES All of the modules listed below are included in the Trainee Guide and the Instructor's Guide. The following ISBN and pricing information is for ordering individual modules only.

| Introduction to Solar Photovoltaics (40 Hours) | | |
|---|--|--|
| Trainee \$22 | ISBN 978-0-13-213726-3 | |
| Instructor \$22 | ISBN 978-0-13-213727-0 | |
| (Module ID 57101-11) Covers the basic concepts of PV | | |
| systems and their components, along with general sizing | | |
| and electrical/mechanical design requirements. Provides | | |
| an overview of performance analysis and troubleshooting. | | |
| Successful completion of this module will help prepare trainees | | |
| for the North America | an Board of Certified Energy Practitioners | |
| (NABCEP) PV Entry L | evel Exam. | |

Site Assessment (10 Hours)

| Trainee \$20 | ISBN 978-0-13-266202-4 | |
|---|-------------------------------|--|
| Instructor \$20 | ISBN 978-0-13-266207-9 | |
| (Module ID 57102-11) Explain | s how to determine customer | |
| needs, assess site-specific safety hazards, conduct a site | | |
| survey, and identify a suitable location for the PV array and | | |
| other system components. Also | o explains how to acquire and | |
| interpret site solar radiation and temperature data. | | |

System Design (25 Hours)

ISBN

978-0-13-257110-4

978-0-13-257117-3

Trainee \$20 ISBN 978-0-13-266203-1 Instructor \$20 (Module ID 57103-11) Describes system design considerations, including array configurations, component selection, and wire sizing. Covers bonding, grounding, and the selection of overcurrent protection and disconnects.

System Installation and Inspection (60 Hours)

| Trainee \$20 | ISBN 978-0-13-266204-8 | |
|--|------------------------|--|
| Instructor \$20 | ISBN 978-0-13-266209-3 | |
| (Module ID 57104-11) Explains how to use the information | | |
| from the site assessment and system design documents | | |
| to safely install a photovoltaic array and other system | | |
| components. | | |

 Maintenance and Troubleshooting (10 Hours)

 Trainee \$20
 ISBN 978-0-13-266205-5

 Instructor \$20
 ISBN 978-0-13-266210-9

 (Module ID 57105-11) Covers basic system performance monitoring and troubleshooting procedures, including record-keeping requirements.

