

Solar Photovoltaics

L1 SOLAR PHOTOVOLTAIC SYSTEMS INSTALLER



LEVEL 1



Curriculum Notes

- 220 Hours (includes Core)
- Published: 2011
- Developed using NABCEP's PV Task Analysis and aligned with NABCEP's PV Installer Certification.
- Downloadable instructor resources are available.
- *Introduction to Solar Photovoltaics* (Module ID 57101) 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

ISBN

Trainee Guide: \$74.99

978-0-13-257110-4

MODULES

The modules listed below are included in the Trainee Guide. The following ISBNs are for ordering individual modules only.

Introduction to Solar Photovoltaics (40 Hours)

ISBN 978-0-13-818595-4

(Module ID 57101) Solar photovoltaic (PV) modules transform solar energy, sunlight, into electrical energy that powers an electrical load, such as your computer or refrigerator. Using PV modules, the United States and other nations around the world can harness solar energy. Solar energy is being used to reach 2030 and 2050 global climate change initiatives to reduce carbon emissions and decrease the reliance on fossil fuels. Completion of this module helps prepare solar PV trainees for the North American Board of Certified Energy Practitioners (NABCEP) PV Associates Exam and an exciting career in the solar PV industry.

Site Assessment (10 Hours)

ISBN 978-0-13-266202-4

(Module ID 57102-11) Explains 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 explains how to acquire and interpret site solar radiation and temperature data.

System Design (25 Hours)

ISBN 978-0-13-266203-1

(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)

ISBN 978-0-13-266204-8

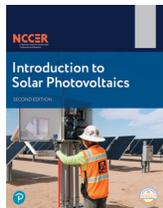
(Module ID 57104-11) Explains how to use the information from the site assessment and system design documents to safely install a photovoltaic array and other system components.

Maintenance and Troubleshooting (10 Hours)

ISBN 978-0-13-266205-5

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

Introduction to Solar Photovoltaics



40 Hours
Revised: 2023, Sixth Edition
Module ID 57101

PAPERBACK

ISBN

Trainee Guide: \$24.99

978-0-13-818595-4

NCCERconnect Access Card: \$24.99

978-0-13-818638-8

NCCERconnect +

Hardcover Trainee Guide: \$49.99

978-0-13-818598-5

Solar photovoltaic (PV) modules transform solar energy, sunlight, into electrical energy that powers an electrical load, such as your computer or refrigerator. Using PV modules, the United States and other nations around the world can harness solar energy. Solar energy is being used to reach 2030 and 2050 global climate change initiatives to reduce carbon emissions and decrease the reliance on fossil fuels. Completion of this module helps prepare solar PV trainees for the North American Board of Certified Energy Practitioners (NABCEP) PV Associates Exam and an exciting career in the solar PV industry.

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