*MILLENNIUM SOLAR ELECTRIC TRAINING ACADEMY: Basic PV Summary Curriculum*

**National Center for Construction Education Research:**

**Core Curriculum & Solar Photovoltaic System Installer**

This curriculum provides an overview on how to become a solar PV installer by positioning and assisting you

in the renewable energy market that is predicted for extreme growth and a great future. Among a variety of

topics in the NCCER Solar Photovoltaic Systems Installer book, students will learn about the principles of

photovoltaic solar, basic electrical, energy consumption analysis, solar energy availability, system component

sizing, installation techniques, how to incorporate a PV system into stand-alone or interconnected system,

advantages, disadvantages, component operation, system design and requirements and the industry best

practices of key topics covered in each chapter.

• NCCER: Solar Photovoltaic Systems Installer (TEXTBOOK)

• 8 hours live online interactive class lectures (8: 1-hour Zoom Sessions)

• 4 sections review quizzes

• 1 Module quiz

• 2 Pre-Finals-

• 1 Final Exam

**HANDS-ON TRAINING (Pre-Scheduled, One-on-One for Social Distancing)**

Converting classroom theory into practice with hands-on Photovoltaic training! This five-day lab class offers

trainees the chance to join experienced Photovoltaic professionals and get hands-on training with modules,

inverters, various ballast racking from a range of manufacturers by fully installing, commissioning (testing the

system), de-commissioning (break-down experience) as it relates to the Photovoltaic industry.

*COVID RESPONSE:*

In accordance with state law and the CDC we will hold Hands-on Training in controlled groups. There will

be two sessions each day with seven trainees and up to 3 instructors. Mandatory mask and PPE are required.

**OSHA 10 TRAINING (Online Virtual)**

The OSHA training program for construction provides training for entry-level workers on the recognition,

avoidance, abatement, and prevention of safety and health hazards in workplaces. The program also provides

information regarding workers’ rights, employer responsibilities and how to file a complaint. OSHA training

ensures that workers are more knowledgeable about workplace hazards and their rights. Students who

successfully complete the MSETA OSHA 10-hour construction industry course receive an OSHA 10-hour

construction industry wallet card from the OSHA Training Institute (OTI).

**NABCEP Associates Exam Preparation (Online Virtual)**

This 8-hour prep and a 2-hour Exam will cover NABCEP learning objectives and prepare the trainees for the

PV Associate exam.

• 4hrs LIVE online interactive class lectures

• 2hr Final review session

• 8 Interactive Solar Videos

• NABCEP Study Guide

• 5 practice exams (over 200 questions)

• 1 NABCEP PV Associate Exam (Online & Written Test available)