BECOME A CERTIFIED SOLAR PROFESSIONAL

1. PV101: SOLAR ELECTRIC DESIGN AND INSTALLATION (GRID-DIRECT)
   PV101 starts with an overview of basic PV system applications and quickly moves on to provide students with a fundamental understanding of core concepts necessary to work with PV systems, including: system components and configuration; site analysis and solar resource data; PV module specifications and selection criteria; mounting solutions; sizing of residential size grid-direct systems; overcurrent protection and grounding; and safety and commissioning.

2. PV201L: SOLAR ELECTRIC LAB
   This is the ultimate hands-on PV training experience available! This workshop offers five days of hands-on installation practice with grid-direct systems at our PV lab training facility. By working in small groups led by expert PV instructors, students put their classroom learning from PV101 to the test, fully installing and commissioning a variety of system types and a range of components, testing the systems, and evaluating their performance.

3. PV202: ADVANCED PV SYSTEM DESIGN (GRID-DIRECT)
   The focus in PV202 is on residential and commercial-scale systems, but the systems design parameters, and best practices are applicable to all types and sizes of PV installations. Detailed lessons address requirements for disconnects, overcurrent protection, and wire sizing; interconnection requirements and calculations; grounding, ground-faults, and surge protection; calculations for systemsizing, inverter selection, and electrical configuration; ground and roof mount details; and commissioning and performance analysis procedures.

4. PV351L: TOOLS AND TECHNIQUES FOR OPERATION AND MAINTENANCE LAB
   This intensive, advanced training is designed for solar professionals already working in the PV industry who want to take their skills to the next level. Students in this class will learn the theory behind, and then gain hands-on experience with, a wide range of state-of-the-art analytical tools. The class will focus on PV-system commissioning, performance evaluation, operations and maintenance, and troubleshooting techniques using tools such as thermal cameras, IV curve tracers, insulation resistance testers, and multi-meters.

ABOUT US
Shams Oman is a solar photovoltaic training program developed by SEI (Solar Energy International) and localised by SGS (Shams Global Solutions). The program is sponsored by BP Oman and hosted at the German University of Technology in Oman (GUtech).

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*Certification as a junior or senior solar professional may be provisional for persons with no prior work experience. Contact the Distribution Code Review Panel (DCRP) of Oman for further details.