

SOLAR ENERGY SYSTEM INSTALLERS

Occupation Code # 007.161-038

Installs and repairs solar-energy systems designed to collect, store, and circulate solar-heated water or other medium for residential, commercial, or industrial use: Locates and marks position of collectors, holding tank, and distribution system on structure, according to specifications and blueprints. Cuts holes in roof, walls, and ceiling to install equipment and plumbing, using power saws and drills. Installs supports and brackets to anchor solar collectors and holding tank, using carpenter's handtools. Cuts, threads, and fits plumbing according to specifications for connecting circulation system, using plumber's handtools. Lays out and connects electrical wiring between controls and pumps according to wiring diagram and knowledge of standard industry practice, using electrician's handtools. Tests electrical circuits and components for continuity, using electrical test equipment. Tests plumbing for leaks, using pressure gauge. Pushes control buttons to activate pumps and observes system to detect malfunctions. Repairs or replaces defective equipment.

SUBJECTS

Safety Basics	10
Electricity Basic	10
Solar Energy fundamentals	30
- PV Modules	
- PV system Components	
Site Assessment	10
System Design	60
- Mechanical	
- Electrical	
Installation of the PV System	40
System check out and performance	20
Maintenance and Troubleshooting	20
Total Class Hours	200

SCHEDULE

Monday to Thursday

9:00 am - 3:00 pm

Length: 10 Weeks

Saturday

8:00 pm - 1:00 pm



California State Approval since 1987

School of Vocational and Institute of Technology

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