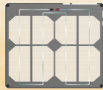


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SOLAR PV TECHNOLOGY PROGRAM



**SOLAR PV
GT-1000**

Alternative Energy Generation

- History of fossil fuels
- Environmental concerns
- Price convergence

Energy and Power

- Types of energy
- Potential and kinetic energy
- Voltage and current
- Electrical loads

Passive Solar Systems

- Angular and reflective light
- Passive solar heating
- Passive solar cooling and shading
- Convective and evaporative cooling

Active Solar Systems

- Photovoltaics
- PV modules and ratings
- Inverters and metering
- Thermal heating and collection

Design & Installation of Residential Scale Photovoltaic Systems

- Mounting PV modules
- Array orientation
- Battery systems and wiring
- PV charge controllers
- Grid-tie metering

Troubleshooting PV Systems

- Locating and isolating bad panels
- Locating bad terminals, wiring and connectors

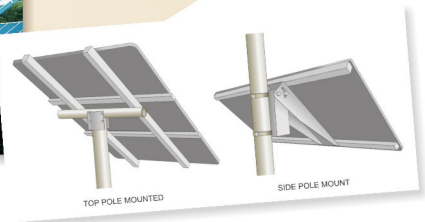
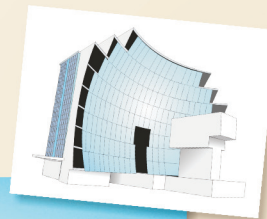
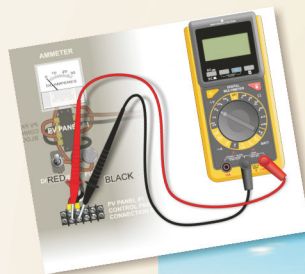
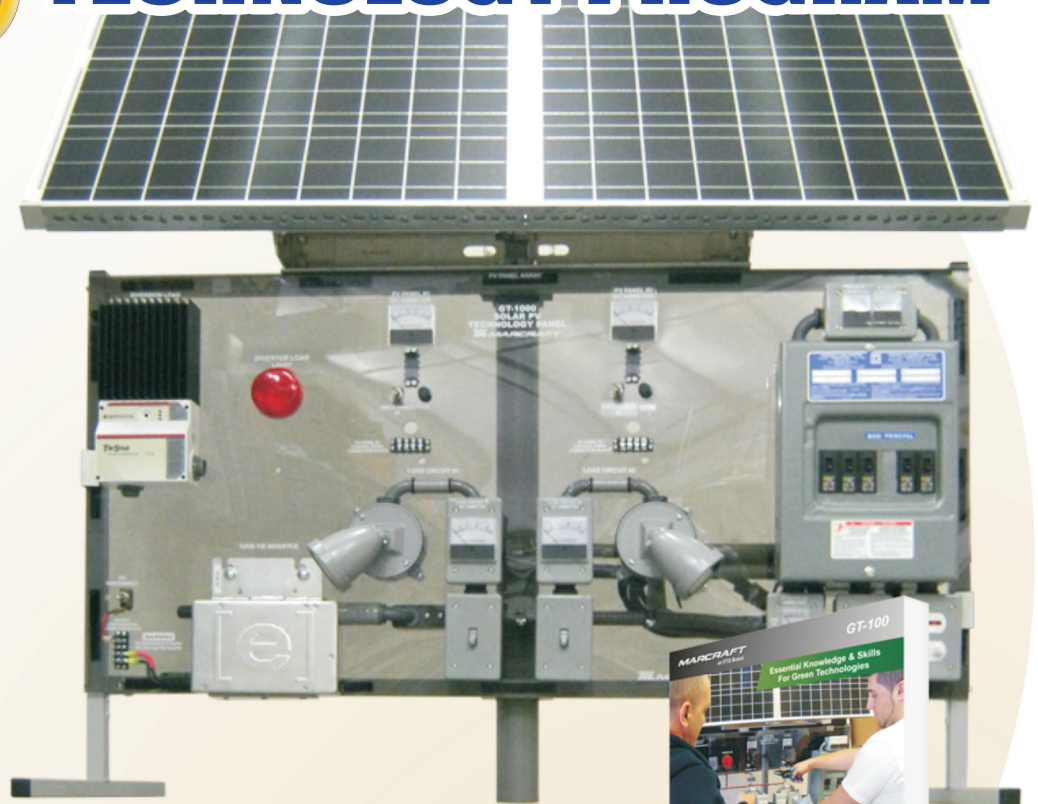
Building Codes and Compliance

- National Electrical Codes
- Underwriters Laboratories
- OSHA
- National Fire Protection Association

Understanding Blueprints

- Schematic drawings
- Working drawings
- Symbols and scaling

Reinforced with Hands-on Labs



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