

Solar/Energy Technology

Certificate of Proficiency

Program **SOLAR.ENGY.CERT**
CIP 150505



Global energy initiatives reflect a shift towards clean and efficient methods of producing energy. The Solar/Energy Technology certificate offers students a foundation in construction basics, a comprehensive introduction to the wide range of energy sources, and training in areas of installation and auditing.

PROGRAM OUTCOMES

- Understand available renewable energy systems;
- Demonstrate knowledge of basic circuitry and electronic components;
- Use hand tools and apply metalworking skills to fabricate electronic chassis;
- Comprehend building construction systems;
- Apply energy auditing and weatherization processes to existing structures;
- Demonstrate specific skills related to solar installation applications.

Certificate Curriculum

Code	Course (lecture/lab hours)	Credits
BCT 110	Construction Materials and Methods I (3/0)	3
EET 130	Fundamentals of Electronics (2/2)	3
ENG 101	English Composition I (3/0)	3
ERG 111	Alternative Energy Sources (3/0)	3
IST 101	Computer Concepts with Applications (2/2)	3
MAT —	Mathematics elective ¹	3-4
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EET 140	Electronic Construction (1/3)	2
ERG 112	Energy Auditing and Weatherization (2/2)	3
ERG 113	Solar Installation Technology (2/2)	3
— —	Technical electives ²	6
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¹ Select in consultation with an academic advisor.

² Select from BCT 101, DRA 190, EET 215, ENT 116, HRA 101, or other course by coordinator approval.