

SUSTAINABLE CONSTRUCTION & ENERGY TECHNOLOGY RENEWABLE ENERGY CERTIFICATE OF ACHIEVEMENT

This certificate combines competencies in sustainability and renewable energy technical skills. The combination of these competencies prepares students for emerging opportunities in the rapidly expanding renewable energy sector. Students completing this certificate will be well positioned to gain employment or start a business in fields such as photovoltaic design and installation.

Required Courses

Course Number	Course Name	Units
SCT 162	Safety Standards for Construction	1
SCT 164	Construction Documents I - Understanding Blueprints	3
SCT 180A	Construction Fundamentals and Green Building	3
SCT 186	Introduction to Residential Electrical Systems	3
SCT 190A	Introduction to Photovoltaics (Solar)	3
SCT 190B	Advanced Photovoltaics	3
SCT 200	Sustainability Overview	3
WEE 196	Work Experience Education	0.5 - 14

Total units required for Certificate

19.5 – 33

Program Level Student Learning Outcomes:

1. Define concepts and principles of renewable energy and explain their relation to the technical trades and related career opportunities.
2. Demonstrate applied technical ability in photovoltaic design and installation.
3. Define concepts and principles of sustainability and explain their relation to the technical trades and related career opportunities.

Career Opportunities in SUSTAINABLE CONSTRUCTION & ENERGY TECHNOLOGY

Completing the Sustainable Construction & Energy Technology - Renewable Energy Certificate of Achievement can lead to a variety of opportunities. These include careers in photovoltaic design and installation, renewable energy, and related trades.