

SUSTAINABLE CONSTRUCTION & ENERGY TECHNOLOGY – BUILDING EFFICIENCY & PERFORMANCE CERTIFICATE OF ACHIEVEMENT

This certificate combines competencies in sustainability, residential efficiency, heating and cooling, and entrepreneurial business skills. The combination of these competencies prepares students for emerging opportunities in building performance auditing, retrofitting, and efficient heating and cooling. Students completing this certificate will be well positioned to gain employment or start a business in fields such as efficiency upgrade retrofitting, building performance auditing, HVAC, and related trades.

Required Courses:		Units
BUS 174	Introduction to Green Business Principles and Practices	3
CED 196	Occupational Work Experience Education	1 - 8
CSC 201	Computers and Computer Applications	3
SCT 162	Safety Standards for Construction	1
SCT 164	Construction Documents I - Understanding Blueprints	3
SCT 166	Introduction to Construction Management	2
SCT 172	Introduction to CleanTech	3
SCT 180A	Construction Fundamentals and Green Building	3
SCT 193	Building Performance and Weatherization	3
SCT 194	Efficient Heating and Cooling	3
SCT 200	Sustainability Overview	3
Business Electives (minimum 1):		Units
BUS 108	Computerized Accounting	3
BUS 132	Entrepreneurial Management	3
BUS 176	The New Green Economy: Trends and Opportunities	3
BUS 230	Introduction to Business	3
Residential Efficiency and Performance Electives (minimum of 1):		Units
SCT 182	Residential Remodel and Repair	3
SCT 186	Introduction to Residential Electrical Systems	3
SCT 195	Introduction to HVAC maintenance and Repair	3
Total units required for Certificate		34 – 41

Program Level Student Learning Outcomes:

1. Students completing this certificate will be able to define concepts and principles of sustainability and explain their relation to the technical trades and related business and career opportunities.
2. Students completing this certificate will be able to demonstrate applied technical ability in their chosen certificate focus area.
3. Students completing this certificate will be able to apply business skills and principles to employment and entrepreneurial opportunities relating to their chosen certificate focus area.