SOLAR PANEL INSPECTION TECHNICIAN CERTIFICATE

Division: Technology and Engineering

PROGRAM CODE: 2C46124

The Solar Panel Inspection Certificate equips students with the skills and knowledge to conduct professional solar panel inspections using advanced technology. This program combines hands-on training in drone operations, thermal imaging, and solar panel installation to prepare students for careers in renewable energy, maintenance, and inspection services. Students will learn to operate drones for aerial inspections, capture and analyze thermal imaging data to identify panel inefficiencies and potential issues, and gain foundational knowledge of solar panel installation principles to enhance their understanding of system design and functionality. This certificate requires 12 units. A grade of C or better is required in each course taken.

Code	Title	Units
Required Courses (12 units):		
CSTR 028 F	Introduction to Alternative Energy	3
DRON 101 F	Basic Drone Piloting	2
DRON 120 F	Infrared Thermal Imaging Level 1	2
DRON 125 F	Solar Panel Thermal Inspection	2
TECH 081 F	Technical Mathematics I	3
Total Units		**12**

Program Level Student Learning Outcomes

Outcome 1: Operate drones and thermal imaging equipment to perform accurate solar panel inspections in compliance with industry safety standards.

Outcome 2: Analyze thermal imaging data and inspection results to diagnose solar panel performance issues and recommend appropriate corrective actions.