

PROGRAM OF STUDY

GREEN HVAC COMMERCIAL Certificate of Achievement

GREEN HVAC COMMERCIAL CERTIFICATE offers the students the opportunity to learn the academic, occupational, communication, and technical training skills needed by entry level technicians in the COMMERCIAL Heating, Ventilating, and Air Conditioning (HVAC) industry. Students completing this certificate will develop multiple skills that include real-world knowledge of: Air conditioning and refrigeration theory and application, equipment tools, systems and components, fundamentals of motors and capacitors, interpreting electrical diagrams, building automation controls, control networks, principles of hydronic heat, boilers, chillers, duct and envelope testing, air supply and delivery, system evacuation and charging, troubleshooting, equipment service and installation, energy conservation, design, and safety. This curriculum was developed in collaboration with several community colleges and industry partners to provide a path to various COMMERCIAL Heating, Ventilating, and Air Conditioning (HVAC) career areas.

Career Opportunities in Air Conditioning/HVAC

facilities maintenance, building engineer, energy auditing, manufacturing, design, installation, service, sales, and entrepreneurship.

Required Courses:

ACR 060	Air Conditioning & Refrigeration I	3
ACR 061	Air Conditioning & Refrigeration II	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration Electricity II	3
ACR 075	HVACR Systems Design	3
ACR 076	Facilities Maintenance - Chillers	3
ACR 077	Energy Conservation Methods for HVACR	3
ACR 078	Safe Refrigerant Handling & Management	3
ACR 083	All Weather Heating & Cooling Systems	3
ACR 084	Boiler and Hydronic Heating	3
ACR 090	Building Automation Fundamentals	3
BIT 020	California Mechanical Codes	2

Total Units

35

PID 261