

## PROGRAM OF STUDY

### FACILITIES OPERATIONS TECHNICIAN Certificate of Achievement

The FACILITIES OPERATIONS TECHNICIAN 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, interpreting electrical diagrams, physics for building science, building commissioning, building automation controls, control networks, carbon monoxide analysis, building pressure measurements, general combustion theory, plumbing fundamentals, boilers, chillers, air supply and delivery, system evacuation and charging, equipment service and installation, energy conservation, design, troubleshooting, 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

Facilities maintenance, building engineer, energy auditing, building automation technician, installation, maintenance, and service.

ACR 060	Air Conditioning & Refrigeration I	3
ACR 064	Air Conditioning & Refrigeration Electricity I	3
ACR 065	Air Conditioning & Refrigeration Electricity II	3
ACR 076	Facilities Maintenance - Chillers	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
ARCH 011	Architectural Blueprint Reading	3
ACT 030	Plumbing Fundamentals	3

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**Total Units****30**

PID 310