

HVAC SERVICE TECHNICIAN Certificate

I. Electronics Professional Core..... 14 Credits

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|-----------|---------------------|------|
| ELEC 1060 | Soldering | 2 cr |
| ELEC 1100 | DC/AC Electricity | 4 cr |
| ELEC 1105 | Electronic Circuits | 3 cr |
| ELEC 1110 | Digital Circuits | 3 cr |
| ELEC 2050 | PLC's | 2 cr |

II. HVAC Professional Core 16 Credits

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|---------|-----------------------------------|------|
| BU 2000 | Refrigeration/Electronics Lab | 1 cr |
| BU 2010 | Motors and Controllers | 2 cr |
| BU 2020 | HVAC Controls | 2 cr |
| BU 2030 | Low Voltage Codes | 2 cr |
| BU 2500 | Refrigeration Theory | 3 cr |
| BU 2602 | HVAC/Refrigeration Systems Theory | 4 cr |
| BU 2612 | HVAC/Refrigeration Lab | 2 cr |

Total 30 Credits

Purpose: The Heating, Ventilating, and Air Conditioning (HVAC) Electronic Technician Certificate is designed to prepare students for careers requiring skills in the operation, maintenance, troubleshooting, and repair of HVAC electrical/electronic and mechanical equipment found in residential and commercial buildings. Instruction the first semester includes courses in electrical and electronic components and circuitry, electrical controls, and programmable logic controls. Courses in residential and commercial refrigeration, air conditioning, pneumatics, heating and cooling systems, and computerized energy management systems comprise the second semester instruction. Graduates may be employed as service technicians in the heating/ventilation/air conditioning (H.V.A.C.) field, building trades, and some are self-employed in the H.V.A.C. field.

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