

## HVAC1104 - Heating, Ventilating and Air Conditioning Electrical Controls

| Credits:           | 3 (1/2/0)  |
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| Description:       | This course covers the wiring of typical heating and cooling circuits, as well as the installation of heating and air conditioning systems.  |
| Prerequisites:     | • HVAC1103   |
| Corequisites:      |  |
| Pre/Corequisites*: |  |
| Competencies:      | <ol> <li>Demonstrate safety and professionalism.</li> <li>Describe heating, ventilation and air conditioning electrical systems.</li> <li>List electrical heating and air conditioning components used in various systems.</li> <li>Interpret electrical diagrams used in heating and air conditioning systems.</li> <li>Draw basic heating and air conditioning electrical control diagrams.</li> <li>Utilize electrical test equipment in advanced troubleshooting and repair.</li> <li>Assemble components from a system wiring diagram.</li> <li>Explain how electronic control systems operate in heating and air conditioning equipment.</li> <li>Perform repairs and troubleshooting according to manufacturer specifications.</li> </ol> |
| MnTC goal areas:   | None   |

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.