# HVAC1104 - Heating, Ventilating and Air Conditioning Electrical Controls

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| Credits: | 3 (1/2/0) |
| 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: | 1. Demonstrate safety and professionalism.<br>2. Describe heating, ventilation and air conditioning electrical systems.<br>3. List electrical heating and air conditioning components used in various systems.<br>4. Interpret electrical diagrams used in heating and air conditioning systems.<br>5. Draw basic heating and air conditioning electrical control diagrams.<br>6. Utilize electrical test equipment in advanced troubleshooting and repair.<br>7. Assemble components from a system wiring diagram.<br>8. Explain how electronic control systems operate in heating and air conditioning equipment.<br>9. Perform repairs and troubleshooting according to manufacturer specifications. |
| MnTC goal areas: | None |

**Can be taking as a Prerequisite or Corequisite.*

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