

# HVAC1128 - Heating, Ventilating, and Air Conditioning Design and Installation

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| Credits:           | 5 (2/3/0)   |
| Description:       | This course includes an overview of various heating controls and appliances. Topics will include blueprints as applied to estimating heating and cooling loads; gas piping as installed in residential and light commercial jobs; safe heating, ventilating and air conditioning practices; various venting codes and requirements; and the sizing of furnaces, duct work and piping. |
| Prerequisites:     |   |
| Corequisites:      |   |
| Pre/Corequisites*: |   |
| Competencies:      | <ol style="list-style-type: none"><li>1. Demonstrate on the job safety.</li><li>2. Install sheet metal fittings.</li><li>3. Interpret blue prints.</li><li>4. Calculate heating, ventilating, and air conditioning building losses.</li><li>5. Calculate equipment size.</li><li>6. Calculate job costs.</li><li>7. Demonstrate tool use.</li></ol>                                   |
| MnTC goal areas:   | None  |

\*Can be taking as a Prerequisite or Corequisite.