

## GAS2600 - Electric and Gas Appliances

| Credits:           | 4 (2/2/0)  |
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| Description:       | This course provides the student with the skills necessary for the installation, maintenance and repair of residential electric/gas appliances.  |
| Prerequisites:     |  |
| Corequisites:      |  |
| Pre/Corequisites*: |  |
| Competencies:      | <ol> <li>Recognize electrical sources and construct circuits commonly found in gas appliances.</li> <li>Utilize safe practices while working with electricity.</li> <li>Demonstrate the correct use of electrical test equipment.</li> <li>Interpret the reading of electrical wiring diagrams.</li> <li>Utilize safe practices while working with natural gas or propane.</li> <li>Demonstrate the correct use of gas test equipment.</li> <li>Perform troubleshooting applications for gas and electric appliances.</li> <li>Outline the sequence of operation when working on electric or gas appliances.</li> <li>Demonstrate the ability to read electrical wiring diagrams.</li> <li>Assess gas/electrical control functions.</li> <li>Test ignition systems on gas appliances.</li> <li>Perform troubleshooting applications.</li> <li>Explain how gas water heaters operate and different gas (natural or propane) types.</li> <li>Explain and demonstrate conventional gas furnaces.</li> <li>Explore and compare ventilation air for combustion of appliances.</li> <li>Compare high-efficiency gas furnaces.</li> <li>Describe and compare other gas appliances, including residential and commercial.</li> </ol> |
| MnTC goal areas:   | None   |

\*Can be taking as a Prerequisite or Corequisite.