

## GAS2600 - Electric and Gas Appliances

Credits:	4 (2/2/0)
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 style="list-style-type: none"> <li>1. Recognize electrical sources and construct circuits commonly found in gas appliances.</li> <li>2. Utilize safe practices while working with electricity.</li> <li>3. Demonstrate the correct use of electrical test equipment.</li> <li>4. Interpret the reading of electrical wiring diagrams.</li> <li>5. Utilize safe practices while working with natural gas or propane.</li> <li>6. Demonstrate the correct use of gas test equipment.</li> <li>7. Perform troubleshooting applications for gas and electric appliances.</li> <li>8. Outline the sequence of operation when working on electric or gas appliances.</li> <li>9. Demonstrate the ability to read electrical wiring diagrams.</li> <li>10. Assess gas/electrical control functions.</li> <li>11. Test ignition systems on gas appliances.</li> <li>12. Perform troubleshooting applications.</li> <li>13. Explain how gas water heaters operate and different gas (natural or propane) types.</li> <li>14. Explain types of gas ranges, ignition types and controls.</li> <li>15. Explain and demonstrate conventional gas furnaces.</li> <li>16. Explore and compare ventilation air for combustion of appliances.</li> <li>17. Compare high-efficiency gas furnaces.</li> <li>18. Describe and compare other gas appliances, including residential and commercial.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.