<table>
<thead>
<tr>
<th>Course Number Course Name</th>
<th>PLBT 1301 Gas Installations</th>
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</thead>
<tbody>
<tr>
<td>Credit Value (Breakdown of theory and lab credits)</td>
<td>1.5 (0.5 Theory and 1 Lab)</td>
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<td>Catalog Course Description</td>
<td>The course will emphasize the importance of proper installations of gas. Properties of gas and the combustion process will be covered as well as gas piping systems; clocking and orifice sizing; air supply and venting; valves and regulators; and electrical systems and controls. Pre-requisites: None</td>
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| Student Learning Outcomes/Objectives/Competencies of the Course | Student Learning Outcomes:  
- Identify the various properties of gas.  
- Install a basic gas piping system.  
- Demonstrate de-rating calculations for proper orifice sizing (Natural & LP).  
- Identify proper vent material and sizing based on the fuel type and output Btu’s.  
- Demonstrate the proper placement and positioning of gas regulators both in and outside of the building.  
- Demonstrate proper troubleshooting procedures for gas systems.  
- Demonstrate proficiency in testing and finding leaks in a gas piping system. |
| College-Wide Student Learning Outcomes | College Wide Student Learning Outcomes:  
- Cultural Sustainability  
- Information Competency |