<table>
<thead>
<tr>
<th>Course Number Course Name</th>
<th>PLBT 1002 Soldering and Brazing</th>
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</thead>
<tbody>
<tr>
<td>Credit Value (Breakdown of theory and lab credits)</td>
<td>2 (2 Lab)</td>
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<tr>
<td>Catalog Course Description</td>
<td>This course focuses on the joining methods of soldering &amp; brazing which include, Safety and safe work practices; Theory of soldering and brazing; Types and uses of copper tube; Solders, brazing rod, and fluxes; Joint preparation and assembly; Heating equipment and tools; Soldered and brazed joints; and Performance tests for soldering and brazing. Pre-requisites: None</td>
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</tbody>
</table>
| Student Learning Outcomes/Objectives /Competencies of the Course | Student Learning Outcomes:  
  - Identify the proper soldiers, fluxes and brazing rod for assigned joining procedures.  
  - Select proper heat source, tools and preparation material for assigned joining procedures.  
  - Measure, cut, and assemble connections according to industry standards.  
  - Demonstrate proper soldering process to pass visual inspection by the CWI.  
  - Demonstrate proper brazing process to pass visual inspection by the CWI.  
  - Obtain the UA Soft Solder (UA-SS1) and UA Brazing (UA-51) certifications |
| College-Wide Student Learning Outcomes | College Wide Student Learning Outcomes:  
  Communication  
  Critical Thought |