



PLBT 1002 SYLLABUS

Course Number Course Name	PLBT 1002 Soldering and Brazing
Credit Value (Breakdown of theory and lab credits)	2 (2 Lab)
Catalog Course Description	This course focuses on the joining methods of soldering & 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
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes:</p> <ul style="list-style-type: none"> • Identify the proper solders, 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	<p><i>College Wide Student Learning Outcomes:</i></p> <p><i>Communication</i></p> <p><i>Critical Thought</i></p>