



## PLAP 1428 SYLLABUS

<b>Course Number Course Name</b>	PLAP 1428 Plumbing Apprenticeship XII
<b>Credit Value (Breakdown of theory and lab credits)</b>	4.5 (2.5 Theory and 2 Lab)
<b>Catalog Course Description</b>	<p>In this course students will study the gas installer code as identified in the Uniform Mechanical Code that is being enforced by the State as it pertains to Natural Gas Installers License testing. The class will build on previous instruction and delve into administrative rules, definitions, general regulations and the rules of installing various systems, safety devices required including water-heaters, boilers, pressure vessels, piping and introduction to thermal energy systems. The Uniform Mechanical Code book will be use as well for Pipefitting installation as it pertains to Pipefitting Installer License testing. Topics covered are administrative rules, definitions, general regulations and the rules of installing piping for combustion air, vents, boilers/steam vessels, hydronics and process piping. Proper piping/tubing data, valves, fittings and joints as well as their limitations in various systems will be covered. Pipe offsets and welding take off calculations will also be covered.</p> <p>Pre-requisites: None</p>
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<ul style="list-style-type: none"> <li>• The student will show competency in locating information in the mechanical code book and State Administrative Code regulations quickly and accurately.</li> <li>• The student will identify confined spaces for appliance and accurately determine the proper method for bringing combustion air to those appliances.</li> <li>• The student will properly identify chimney and venting requirements and clearances that must be adhered to by code.</li> <li>• The student will identify in the codes, proper installation safety devices and clearances associated with boilers, hydronic systems and solar thermal energy requirements.</li> <li>• The student can pass their state examination for Journeyman Gas Installer.</li> <li>• The student can quickly locate clearance, installation and safety device requirements for boilers, steam vessels and hydronic systems.</li> <li>• The student will properly locate rules and regulations on Hazardous Process piping and associated safety standards.</li> <li>• The student will be able to site proper pipe/tubing data, valves, fitting and joints associated with various installations.</li> <li>• The student will correctly perform offset and fitting take-off calculations.</li> <li>• The Student can pass their state examination for Journeyman Pipefitter Installer License.</li> </ul>
<b>College-Wide Student Learning Outcomes</b>	<p><i>College Wide Student Learning Outcomes:</i></p> <p><i>Communication</i></p> <p><i>Critical Thought</i></p>

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