



PLAP 1427 SYLLABUS

Course Number Course Name	PLAP 1427 Plumbing Apprenticeship VIII
Credit Value (Breakdown of theory and lab credits)	5.0 (3 Theory and 2 Lab)
Catalog Course Description	<p>In this course students will gain insight into the 2015 Uniform Mechanical Code and the 2015 New Mexico Mechanical Code. Regulations and guidelines for proper installation will be explored in preparation for the New Mexico State Gasfitters License for Journeyman Certification which is a requirement within this program. Topics covered include Administration; Definitions; General Regulations; Combustion air; Chimneys and vents; Installation of Specific appliances; Boilers and pressure vessels; Hydronics; and Fuel gas piping. Students will also gain insight into the 2015 Uniform Plumbing Code and the 2015 New Mexico Plumbing Code. Regulations and guidelines for proper installation will be explored in preparation for the New Mexico State Plumbing License for Journeyman Certification which is a requirement within this program. Topics covered include Administration; Definitions; General Regulations; Plumbing Fixtures; Water heaters; Water Supply, Sanitary Drainage; Indirect Wastes; Vents; Traps and interceptors; Storm Drainage; and Fuel gas piping. Finally, this course will introduce students to pneumatic controls. Although they are slowly being phased out, there are many legacy systems still in operation today that work fine. This course deals mainly with troubleshooting existing systems. Areas to be explored are Control loops and air supply; Control valves and dampers; Axillary devices; Receiver controllers and transmitters; Ventilation, heating, cooling and humidity control; and Year-round control. Pre-requisites: None</p>
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes:</p> <ul style="list-style-type: none"> • Correctly calculate and identify a confined space. • Correctly calculate vent connector sizing on boilers. • Correctly calculate for combustion air • Correctly calculate for a fuel gas piping system. • Obtain a state issued Journeyman Gasfitter License. • Correctly calculate a water supply and distribution system. • Correctly calculate a drainage and vent system. • Correctly calculate vent connector sizing on a water heater. • Correctly calculate for confined space. • Obtain a state issued Journeyman Plumbing License. • Identify air compressor and air dryer components. • Determine proper air-line adjustments to obtain peak performance. • Demonstrate successful interpretations of air piping diagrams for pneumatic controls. • Demonstrate troubleshooting procedures for pneumatic controls.

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College-Wide Student Learning Outcomes	<i>College Wide Student Learning Outcomes:</i> <i>Communication</i> <i>Critical Thought</i>
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