



# COURSE OUTLINE

## PLM861

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<b>Course Code: Title</b>	PLM861: PROCESS PIPING SYSTEMS
<b>Program Number: Name</b>	6242: PLUMBER - LEVEL III
<b>Department:</b>	PIPING TRADES
<b>Semester/Term:</b>	18W
<b>Course Description:</b>	The students will perform various process piping systems service, maintenance and repairs in a lab environment.
<b>Total Credits:</b>	6
<b>Hours/Week:</b>	6
<b>Total Hours:</b>	48
<b>Essential Employability Skills (EES):</b>	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#3. Execute mathematical operations accurately.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	Passing Grade: 50%, D
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	<p>Specific practical assignment/s 60%</p> <p>Attendance 20%</p> <p>Shop safety 20%</p> <p>The following semester grades will be assigned to students:</p>

Grade  
Definition Grade Point Equivalent  
A+ 90 - 100% 4.00  
A 80 - 89%  
B 70 - 79% 3.00  
C 60 - 69% 2.00  
D 50 - 59% 1.00  
F (Fail) 49% and below 0.00

CR (Credit) Credit for diploma requirements has been awarded.  
S Satisfactory achievement in field /clinical placement or non-graded subject area.  
U Unsatisfactory achievement in field/clinical placement or non-graded subject area.  
X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.  
NR Grade not reported to Registrar's office.  
W Student has withdrawn from the course without academic penalty.

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
practical tests from instructor	100%

**Books and Required Resources:**

handouts by instructor

**Course Outcomes and Learning Objectives:**

**Course Outcome 1.**

PLM 861 furthers the knowledge required by an apprentice in the installation of drains, vents, fixture installation, water distribution piping and testing of the various systems.

**Learning Objectives 1.**

PLM 861 introduces the apprentices to the study and installation of hydronic boilers complete with controls, pumps, fittings etc.

**Date:**

Thursday, March 1, 2018

Please refer to the course outline addendum on the Learning Management System for further information.