



COURSE OUTLINE

PLM100

Prepared: mike king Approved: corey meunier

Course Code: Title	PLM100: INTRODUCTION TO PLUMBING
Program Number: Name	4005: PRE-TRADES TECHNOLOGY
Department:	PIPING TRADES
Semester/Term:	17F
Course Description:	Students will gain basic knowledge about plumbing. They will have the opportunity to practice safe handling and proper use of hand and power tools. They will practice performing various basic plumbing skills.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Vocational Learning Outcomes (VLO's):	<p>4005 - PRE-TRADES TECHNOLOGY</p> <p>#1. Function at a level of mathematics suited to the student's post-secondary program aspirations.</p> <p>#4. Develop effective learning and study skills.</p> <p>#5. Develop effective career planning skills.</p> <p>#6. Become familiar with the college study requirements.</p> <p>#7. Obtain basic technical skills and introduce students to the theory and lab content of a variety of technical disciplines.</p> <p>#9. Work with others</p>
Essential Employability Skills (EES):	<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>

#10. Manage the use of time and other resources to complete projects.
#11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation: Passing Grade: 50%, D

Other Course Evaluation & Assessment Requirements: 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
attendance	20%
shop safety	10%
specific practical assignments	40%
written test	30%

Books and Required Resources: handouts by instructor

Course Outcomes and Learning Objectives:

Course Outcome 1.

This course will provide the student with an introduction to tools, equipment, safe work practices, basic terminology and calculations used in the plumbing trade.

Learning Objectives 1.

Use personal protective equipment.

Potential Elements of the Performance

Select proper:

- safety work boots
- eye protection
- clothing and gloves

Course Outcome 2.

Learning Objectives 2.

Use Hand and Power Tools

Potential Elements of the Performance

Safe and correct use of the following:

- hammers, chisels, tubing cutters, wrap-a-rounds, files, soldering equipment, threading equipment

Safe and correct use of the following:

- power threading machines, roll groove, bending machines, drills and saws

Course Outcome 3.

Learning Objectives 3.

Identify, select and use a variety of piping materials.

Potential Elements of the Performance:

Identify and select as required:

- copper tube and fittings, malleable iron fittings, steel pipe, steel tube, cast iron fittings and thermoplastics

Course Outcome 4.

Learning Objectives 4.

Follow written or oral instructions necessary to perform the required elements to complete assigned practical tasks.

Potential elements of the performance:

- read and understand sketches provided
- use required formulas to calculate overall measurements
- read and apply charts to obtain the correct pipe lengths
- layout pipe for cutting with pipe and tubing cutters, power machines
- Lay out pipe and/or tubing for bending applications

Course Outcome 5.

Learning Objectives 5.

Use a variety of methods required to join pipe and fittings in order to complete a specified practical assignment.

Potential Elements of the performance:

- flared fittings
- compression fittings
- soft solder
- hard solder
- rolled groove

Date: Monday, December 18, 2017

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