



## COURSE OUTLINE: PLM0100 - INTRO TO PLUMBING

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<b>Course Code: Title</b>	PLM0100: INTRODUCTION TO PLUMBING
<b>Program Number: Name</b>	1120: COMMUNITY INTEGRATN
<b>Department:</b>	C.I.C.E.
<b>Semesters/Terms:</b>	19W, 22W
<b>Course Description:</b>	Students in the CICE Program, with the assistance of a Learning Specialist, 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.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Essential Employability Skills (EES) addressed in this course:</b>	<div>EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</div> <div>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</div> <div>EES 3 Execute mathematical operations accurately.</div> <div>EES 4 Apply a systematic approach to solve problems.</div> <div>EES 5 Use a variety of thinking skills to anticipate and solve problems.</div> <div>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</div> <div>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</div> <div>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</div> <div>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</div> <div>EES 10 Manage the use of time and other resources to complete projects.</div> <div>EES 11 Take responsibility for ones own actions, decisions, and consequences.</div>
<b>Course Evaluation:</b>	<div>Passing Grade: 50%, D</div> <div>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</div>
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	<div>Grade</div> <div>Definition Grade Point Equivalent</div>

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



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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.

**Books and Required Resources:**

handouts by instructor

**Course Outcomes and Learning Objectives:**

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

Course Outcome 1	Learning Objectives for 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.	Use personal protective equipment. Potential Element's of the Performance Select proper: safety work boots eye protection clothing and gloves
Course Outcome 2	Learning Objectives for Course Outcome 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 for Course Outcome 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 for Course Outcome 4
	Follow written or oral instructions necessary to perform the required element's to complete assigned practical tasks. Potential elements of the performance: read and understand sketches provided use required formulas to calculate overall measurements

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	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
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
	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

#### Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
attendance	20%
shop safety	10%
specific practical assignments	40%
written test	30%

#### CICE Modifications:

##### Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.
2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.

**A.** Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

##### **B. Tests may be modified in the following ways:**

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

##### **C. Tests will be written in CICE office with assistance from a Learning Specialist.**

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***The Learning Specialist may:***

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

**D. Assignments may be modified in the following ways:**

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

***The Learning Specialist may:***

1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

**E. Evaluation:**

Is reflective of modified learning outcomes.

**NOTE:** Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

**Date:**

December 14, 2021

**Addendum:**

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

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