



## COURSE OUTLINE: PLM664 - WORKPLACE SAFETY

Prepared: Mike King

Approved: Corey Meunier, Chair, Technology and Skilled Trades

<b>Course Code: Title</b>	PLM664: WORKPLACE SAFETY, RIGGING AND HOISTING
<b>Program Number: Name</b>	6240: PLUMBER - LEVEL I
<b>Department:</b>	PIPING TRADES
<b>Academic Year:</b>	2022-2023
<b>Course Description:</b>	This course will provide the students with information and knowledge about workplace safety including codes, acts and regulations. Students will also learn safe rigging and hoisting procedures.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	2
<b>Total Hours:</b>	16
<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>	<p>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.</p> <p>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 3 Execute mathematical operations accurately.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p> <p>EES 6 Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>EES 10 Manage the use of time and other resources to complete projects.</p> <p>EES 11 Take responsibility for ones own actions, decisions, and consequences.</p>
<b>Course Evaluation:</b>	<p>Passing Grade: 50%, D</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	<p>V. EVALUATION PROCESS/GRADING SYSTEM: The final grade will be the result an average of a mid term and final tests during the course of 8</p>



weeks.

The following semester grades will be assigned to students:

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.

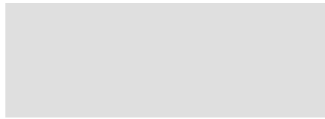
**Books and Required Resources:**

handouts by instructor

**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
<b>COURSE DESCRIPTION:</b> Provides basic instruction required for workplace safety, rigging and hoisting for Level I plumbers.	Upon successful completion of this course, the student will demonstrate the ability to:  Determine the difference between an Act and a Regulation and the effect each has on construction projects. Potential Elements of the Performance: - define an Act - define a Regulation - define the rights and responsibilities of employers, supervisors and workers. - define critical injury. - explain the terms safety committee and safety representative  Identify governing authorities. Potential Elements of the Performance: - explain the difference between the Ministry of Labour and the Construction Safety Association.  Identify safety precautions for construction projects. Potential Elements of the Performance: - choose the correct equipment as required by the Act and Regulations. - correctly perform International hand signals required for Basic Hoisting and Rigging. - explain the correct procedures for lock out and tagging of power equipment. - explain the terms Rated Working Load, Safety Factor and





Breaking Strength as the apply to rigging equipment,  
Determine unknown load weights and strengths of wire and fibre ropes.

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
instructor tests	100%

**Date:**

July 11, 2022

**Addendum:**

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

