

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

<b>Course Code and Number:</b> PLMB 116		<b>Number of Credits:</b> 1													
<b>Course Full Title:</b> Welding and Rigging <b>Course Short Title:</b> Welding & Rigging															
<b>Faculty:</b> Faculty of Applied and Technical Studies		<b>Department (or program if no department):</b> Plumbing and Piping													
<b>Calendar Description:</b> Provides the basic methods of welding/cutting of metal materials and the proper use of rigging on work sites.															
<b>Prerequisites (or NONE):</b>		PLMB 113.													
<b>Corequisites (if applicable, or NONE):</b>		NONE													
<b>Pre/corequisites (if applicable, or NONE):</b>		NONE													
<b>Antirequisite Courses</b> <i>(Cannot be taken for additional credit.)</i> Former course code/number: Cross-listed with: Equivalent course(s): <i>(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)</i>		<b>Course Details</b> Special Topics course: <b>No</b> <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: <b>No</b> <i>(See <a href="#">policy 207</a> for more information.)</i> Grading System: <b>Credit/No Credit</b> Delivery Mode: <b>May be offered in multiple delivery modes</b> Expected frequency: <b>Annually</b> Maximum enrolment (for information only): <b>18</b>													
<b>Typical Structure of Instructional Hours</b> <table border="1"> <tr> <td>Lecture/seminar</td> <td>5</td> </tr> <tr> <td>Supervised laboratory hours (shop)</td> <td>20</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td><b>25</b></td> </tr> </table>		Lecture/seminar	5	Supervised laboratory hours (shop)	20							<b>Total hours</b>	<b>25</b>	<b>Prior Learning Assessment and Recognition (PLAR)</b> PLAR is available for this course.	
Lecture/seminar	5														
Supervised laboratory hours (shop)	20														
<b>Total hours</b>	<b>25</b>														
<b>Scheduled Laboratory Hours</b> Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		<b>Transfer Credit</b> <i>(See <a href="#">bctransferguide.ca</a>.)</i> Transfer credit already exists: <b>No</b> Submit outline for (re)articulation: <b>No</b>													
<b>Department approval</b>		<b>Date of meeting:</b> November 2023													
<b>Faculty Council approval</b>		<b>Date of meeting:</b> December 2023													
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> January 26, 2024													



**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. Demonstrate the ability to weld metal materials used in the workplace.
2. Demonstrate the ability to cut metal materials used in the workplace.

**Recommended Evaluation Methods and Weighting**

Final exam:	50%	Assignments:	20%	
Quizzes/tests:	20%	Shop work:	10%	

**Details:**

70% minimum needed in course after weighted percentages.

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Instructional Methods**

Presentations, online instruction, and individual practicals.

**Texts and Resource Materials**

Type	Author or description	Title and publication/access details	Year
1. Textbook	Troy White	Canadian Plumbing Design and Installation	2019
2. Other	ILM	UFV Plumbing Custom Package	2021

**Required Additional Supplies and Materials**

Scientific calculator (non-programmable)  
Steel toe boots  
Safety glasses

**Course Content and Topics**

Oxy-Acetylene cutting tools.  
Self wire welding tools  
Stick welding tools  
Rope rigging  
Crane rigging

Welding: 0.75 week  
Rigging: 0.25 week