

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**SAULT  
COLLEGE**

**COURSE OUTLINE**

<b>COURSE TITLE:</b>	Safety, Rigging and Hoisting		
<b>CODE NO. :</b>	PLM 664	<b>SEMESTER:</b>	Level One
<b>PROGRAM:</b>	Plumbing Level I - Apprenticeship		
<b>AUTHOR:</b>	Mike Butcher		
<b>DATE:</b>	August 2011	<b>PREVIOUS OUTLINE DATED:</b>	May 2009
<b>APPROVED:</b>	<i>“Corey Meunier”</i>		
	<b>CHAIR</b>		<b>DATE</b>
<b>TOTAL CREDITS:</b>	3		
<b>PREREQUISITE(S):</b>	N/A		
<b>HOURS/WEEK:</b>	3		

**Copyright ©2011 The Sault College of Applied Arts & Technology**  
*Reproduction of this document by any means, in whole or in part, without prior written permission of Sault College of Applied Arts & Technology is prohibited.*  
*For additional information, please contact Corey Meunier, Chair*  
*School of The Natural Environment, Technology & Skilled Trades*  
*(705) 759-2554, Ext. 2610*

**I. COURSE DESCRIPTION:**

Provides basic instruction required for workplace safety, rigging and hoisting for Level I plumbers.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

Upon successful completion of this course, the student will demonstrate the ability to:

**1. 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

**2. Identify governing authorities.****Potential Elements of the Performance:**

- explain the difference between the Ministry of Labour and the Construction Safety Association.

**3. 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 they apply to rigging equipment,

**4. Determine unknown load weights and strengths of wire and fibre ropes.**

**III. TOPICS:**

1. The Occupational Health and Safety Act and Regulations for construction Projects.
2. The role of the Ministry of Labour in Ontario and the Construction Safety Association of Ontario.
3. Choosing the correct equipment and using the correct signaling required to safely perform lifting operations
4. Performing the required math needed for calculations in hoisting and rigging.

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

Occupational Health and Safety Act and Regulations for Construction Projects.

The Construction Safety Association manual and workbook.

The workbook for Level I plumbers.

**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 weeks.

The following semester grades will be assigned to students:

<b>Grade</b>	<b>Definition</b>	<i>Grade Point Equivalent</i>
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.

## **VI. SPECIAL NOTES:**

### Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

Particular attention to the attendance requirements during the introduction to the apprentices by the Training Consultant for the Ministry of Training, Colleges and Universities must be adhered to for successful completion of the course.

## **VII. COURSE OUTLINE ADDENDUM:**

The provisions contained in the addendum located on the portal form part of this course outline.