

I. COURSE DESCRIPTION:

Provide 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.
Potential Elements of the Performance:
 - calculate the weights of various materials by choosing the correct formulas and tables.
 - calculate the rated working load of fibre and wire ropes.
 - calculate the breaking strength of fibre and wire ropes.
 - calculate the safety factor of fibre and wire 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 bi-weekly tests during the course of 8 weeks.

The following semester grades will be assigned to students:

Grade	Definition	Grade Point Equivalent
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
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:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. ADVANCE CREDIT TRANSFER:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.