

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Construction Safety

CODE NO. : CTT100 **SEMESTER:** 1

PROGRAM: Construction Trades Techniques

AUTHOR: Ken James

DATE: Sept 07 **PREVIOUS OUTLINE DATED:** Nil

APPROVED:

DEAN

DATE

TOTAL CREDITS: 2

PREREQUISITE(S): Nil

HOURS/WEEK: 2

Copyright ©2007 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
School of
(705) 759-2554, Ext.

I. COURSE DESCRIPTION: An introduction and information for new construction workers to know their rights and to work safely. The importance of accessing the Occupational Health & Safety Act & the Regulations. To identify and assess health & safety hazards associated with dust and fibres, formwork, working at heights, manual material handling, electrical hazards, equipment hazards, traffic control, trenching hazards, hoisting rigging and crane hazards, and confined space hazard analysis.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Access and interpret the construction act and regulations.
Potential Elements of the Performance:
2. Recognize common workplace dust hazards, assess and control of dusts.
Potential Elements of the Performance:
3. Recognize, assess and control formwork hazards.
Potential Elements of the Performance:
4. Recognize, assess and control hazards associated with working at heights and to recommend effective controls to eliminate or reduce exposure to these hazards.
Potential Elements of the Performance:
5. Describe activities related to materials handling, list factors that contribute to materials handling hazards and describe methods and devices for controlling materials handling hazards.
Potential Elements of the Performance:
6. Recognize, assess and control of electrical hazards.
Potential Elements of the Performance:
7. Recognition of common types of equipment related hazards, use of regulations and inspection to assess hazards assess and control of hazards.
Potential Elements of the Performance:
8. Identification of traffic hazards to workers on foot, assessment of major factors, and implementation of traffic control measures.
Potential Elements of the Performance:
9. Recognize causes of trenching accidents, injuries and fatalities, causes of cave-ins and controls, and other trenching safety hazards and controls.
Potential Elements of the Performance:
10. Recognize hazards in crane operations, list sources of load weight data, identify the conditions requiring a signaler, and identify legislated control measures for safe hoisting, rigging and crane

operations.

Potential Elements of the Performance:

11. Define a confined space, recognize confined space hazards, demonstrate how to assess and control hazards.

III. TOPICS:

1. **Occupational Health & Safety Act & the Regulations**
2. **Dust and fibres**
3. **Formwork**
4. **Working at heights**
5. **Manual material handling**
6. **Electrical hazards**
7. **Equipment hazards**
8. **Traffic control**
9. **Trenching hazards**
10. **Hoisting rigging and crane hazards**
11. **Confined space hazard analysis**

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Occupational Health & Safety Act & Regulations for Construction Projects. - \$16.00 + gst
Construction Health & Safety Manual – Construction Safety Association of Ontario.

V. EVALUATION PROCESS/GRADING SYSTEM:

Work Assignments / Group activities / Tests

The following semester grades will be assigned to students:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
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 703 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.

<include any other special notes appropriate to your course>

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.