

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: INTRODUCTION TO CONCRETE

CODE NO. : CTT 131 **SEMESTER:** 2

PROGRAM: CONSTRUCTION TRADE TECHNIQUES

AUTHOR: SAM SPADAFORA

DATE: JAN. 12, 2009 **PREVIOUS OUTLINE DATED:**

APPROVED:

**“Corey Meunier”
CHAIR**

DATE

TOTAL CREDITS: 1

PREREQUISITE(S): NONE

HOURS/WEEK: 3

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For additional information, please contact Corey Meunier, Chair
School of Technology & Skilled Trades
(705) 759-2554, Ext. 2610

I. COURSE DESCRIPTION:

This course focuses on the methods and procedures used in the placement of concrete. Students will learn about equipment and tools used in concrete placement, and will learn to install concrete and grout material as well as reinforcement components.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. ***Describe the operation of concrete placement tools and equipment according to company and occupational health and safety standards.***

Potential Elements of the Performance:

- list required personal protective equipment, including: rubber gloves and boots
- identify concrete placement tools and equipment, including the following:
 - trowels
 - screeds
 - vibrators
 - rakes
- describe the selection and use of stated tool(s) and equipment based on the concrete placement activity
- illustrate related company policies
- interpret related occupational health and safety legislation

2. ***Describe the methods and procedures required for installation of concrete and grout material and reinforcement components according to manufacturer and occupational health and safety standards.***

Potential Elements of the Performance:

- list required personal protective equipment
- interpret material placement work activity
- identify concrete and grout placement tools and equipment, including:
 - pumps

- curb/barrier wall machines
- cranes
- wheelbarrows
- describe the coordination of work activities in the presence of equipment, including:
 - pumps
 - curb/barrier wall machines
 - cranes
- illustrate related company policies
- interpret the selection of reinforcement materials, including:
 - rebar and wire mesh
- interpret the placement of stated reinforcement materials
- describe the installation of concrete and grout
- perform a basic concrete and grout installation procedure
- outline the use of a wheelbarrow for material placement
- interpret related occupational health and safety legislation

III. TOPICS:

1. Concrete placement tools and equipment
2. Installation of concrete and grout material
3. Reinforcement components

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

- Handouts are provided by the instructor
- Project materials provided for practical component

V. EVALUATION PROCESS/GRADING SYSTEM:

You will be assigned a final grade based on the successful completion of assignments, quizzes, field work and tests, weighted as follows:

Theory Testing	40%
Application Exercises	50%
Final Examination	<u>10%</u>
TOTAL	100%

The following semester grades will be assigned to students:

Grade	Definition	<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:

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services 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:

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.

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