



COURSE OUTLINE: CCT100 - CONSTR.SAFETY/TOOLS

Prepared: Sam Spadafora

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CCT100: CONSTRUCTION SAFETY/TOOLS
Program Number: Name	4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH
Department:	CIVIL/CONSTRUCTION
Semesters/Terms:	21W
Course Description:	<p>This course focuses on safety practices and procedures in the construction industry. Students will learn about occupational and health safety standards, work site hazards, personal protective equipment and maintenance requirements, and work site communication skills. Hands on applications focus on safe operation of hand tools, power tools, powder actuated tools and cutting torch.</p> <p>Students can expect an introduction to and information for new construction workers to know their rights and to work safely. Students can also expect to learn the importance of accessing the Occupational Health & Safety Act & the Regulations, and be able to identify and assess health and safety hazards associated with formwork, working at heights, manual material handling, electrical hazards, equipment hazards, traffic control, trenching hazards, hoisting rigging and crane hazards, and confined space hazards.</p>
Total Credits:	4
Hours/Week:	4
Total Hours:	60
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
This course is a pre-requisite for:	CCT120, CCT121, CCT122
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	<p>4080 - CIVIL ENG TECHNICIAN</p> <p>VLO 2 comply with workplace health and safety practices and procedures in accordance with current legislation and regulations.</p> <p>4098 - CONSTRUCTION TECH</p> <p>VLO 2 Identify and adhere to established health and safety practices.</p> <p>VLO 3 Perform all construction tasks in compliance with applicable laws, regulations, codes and ethical practices in the construction field.</p> <p>VLO 7 Identify and use industry-specific technologies to support construction projects.</p>
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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	EES 2	Respond to written, spoken, or visual messages in a manner that ensures effective communication.
	EES 8	Show respect for the diverse opinions, values, belief systems, and contributions of others.
	EES 9	Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
	EES 10	Manage the use of time and other resources to complete projects.
	EES 11	Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 50%, D

A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

Other Course Evaluation & Assessment Requirements:

Grade
Definition Grade Point Equivalent
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.

Books and Required Resources:

Pocket Ontario Occupational Health & Safety Act & Regulations by Carswell
ISBN: 9780779894284

Construction Health & Safety Manual by Infrastructure Health And Safety
Publisher: Constuction Safety Association of Ontario Edition: 2019
ISBN: 9780919465541

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Identify and adhere to established health and safety practices.	1.1 Identify employee rights and responsibilities associated with health and safety practices 1.2 Conduct self in a safe manner and in accordance with the requirements of work situation 1.3 Identify potential hazards in the workplace setting 1.4 Participate in health and safety training 1.5 Comply with all requirements of the current Ontario Health and Safety Act 1.6 Select and wear Personal Protective Equipment (PPE)

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		1.7 Adhere to and maintain health and safety training certification such as Workplace Hazardous Materials Information System (WHMIS), working at Heights and Confined Space Safety training where appropriate								
	Course Outcome 2	Learning Objectives for Course Outcome 2								
	2. Select maintain and safely operate hand and power tools and equipment used in the building construction trades.	2.1 Select, use and maintain hand tools, portable and stationary power tools 2.2 Use rakes, shovels and wheelbarrows 2.3 Select and use materials, fasteners and connectors commonly used in the construction industry.								
	Course Outcome 3	Learning Objectives for Course Outcome 3								
	3. Assist in the preparation of project estimates.	3.1 Apply basic quantity surveying principles to assist in project takeoff and ordering 3.2 Assist in the calculation of quantities for course projects 3.3 Use industry standards relating to allowances for material and time allotments for labour calculations								
Evaluation Process and Grading System:	<table><tr><th>Evaluation Type</th><th>Evaluation Weight</th></tr><tr><td>Application Exercises</td><td>50%</td></tr><tr><td>Attendance</td><td>15%</td></tr><tr><td>Tests</td><td>35%</td></tr></table>		Evaluation Type	Evaluation Weight	Application Exercises	50%	Attendance	15%	Tests	35%
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Application Exercises	50%									
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Date:	June 11, 2020									
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.									

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