



## COURSE OUTLINE: CCT122 - SCAFF/EARTH BARRIERS

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Approved: Martha Irwin - Dean

<b>Course Code: Title</b>	CCT122: SCAFFOLDING/EARTHWORK BARRIERS/CONTROLS
<b>Program Number: Name</b>	4098: CONSTRUCTION TECH.
<b>Department:</b>	CIVIL/CONSTRUCTION
<b>Academic Year:</b>	2025-2026
<b>Course Description:</b>	<p>This course focuses on elements of construction site set up and control including, but not limited to, scaffolding, earthwork, barriers and controls.</p> <p>A significant portion of the course will focus on the methods and procedures used in scaffold erection and dismantlement. You will learn how to interpret scaffolding requirements from print, layout and sketches. The use of scaffold inspection procedures will also be covered as well as the methods and processes in base preparation, placement of scaffold mudsill and components. You will also learn to install two scaffolding system types including standard frame and stick built.</p> <p>The course will also focus on earthwork, barriers and controls. You will learn to interpret prints and plans related to backfill and compaction procedures. You will also learn about methods and procedures used for traffic control in backfill and compaction operations as well as protection board, insulation materials and material placement</p>
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	4
<b>Total Hours:</b>	56
<b>Prerequisites:</b>	CCT100
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>4098 - CONSTRUCTION TECH.</b> VLO 2 Identify and adhere to established health and safety practices. VLO 3 Perform all construction tasks in compliance with applicable laws, regulations, codes and ethical practices in the construction field. VLO 6 Communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects. VLO 11 Assist skilled tradespersons and perform labouring tasks at construction sites.
<b>Essential Employability Skills (EES) addressed in this course:</b>	EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. 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.								
<b>Course Evaluation:</b>	Passing Grade: 50%, D  A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.								
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	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.								
<b>Books and Required Resources:</b>	Ontario Health & Safety Act & Regulations by Carswell ISBN: 9780779878444								
<b>Course Outcomes and Learning Objectives:</b>	<table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>1. The graduate has reliably demonstrated the ability to identify and adhere to established workplace health and safety practices</td> <td>1.1 identify employee rights and responsibilities associated with health and safety practices 1.2 conduct self in safe manner and in accordance with the requirements of work situation 1.3 identify potential hazards in the workplace setting 1.4 comply with all requirements of the current Ontario Health and Safety Act,1990 1.5 select and wear Personal Protective Equipment (PPE) 1.6 Demonstrate hazard recognition and safe work practices related to scaffolds including fall arrest, loading, and access systems</td> </tr> <tr> <th>Course Outcome 2</th> <th>Learning Objectives for Course Outcome 2</th> </tr> <tr> <td>2. The graduate has reliably demonstrated the ability to perform all construction tasks in compliance with applicable laws, regulations, codes and ethical practices in the construction field.</td> <td>2.1 assist in the implementation of project specifications and drawings 2.2 read and interpret relevant codes and specification plans 2.3 standards, codes and bylaws that regulate the equipment and materials used in construction projects 2.4 Interpret scaffold layout drawings and elevation views to plan erection tasks according to jobsite requirements</td> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	1. The graduate has reliably demonstrated the ability to identify and adhere to established workplace health and safety practices	1.1 identify employee rights and responsibilities associated with health and safety practices 1.2 conduct self in safe manner and in accordance with the requirements of work situation 1.3 identify potential hazards in the workplace setting 1.4 comply with all requirements of the current Ontario Health and Safety Act,1990 1.5 select and wear Personal Protective Equipment (PPE) 1.6 Demonstrate hazard recognition and safe work practices related to scaffolds including fall arrest, loading, and access systems	Course Outcome 2	Learning Objectives for Course Outcome 2	2. The graduate has reliably demonstrated the ability to perform all construction tasks in compliance with applicable laws, regulations, codes and ethical practices in the construction field.	2.1 assist in the implementation of project specifications and drawings 2.2 read and interpret relevant codes and specification plans 2.3 standards, codes and bylaws that regulate the equipment and materials used in construction projects 2.4 Interpret scaffold layout drawings and elevation views to plan erection tasks according to jobsite requirements
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	<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
	3. The graduate has reliably demonstrated the ability to communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects.	3.1 use industry specific terminology as it relates to building materials, projects and trades 3.2 read and interpret construction documents including drawings, specifications and schedules
	<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
	4. The graduate has reliably demonstrated the ability to assist skilled tradespersons and perform labouring tasks at construction sites	4.1 load and unload construction materials and move materials to work area 4.2 identify methods and procedures used for traffic control at construction sites 4.3 remove rubble and debris at construction sites 4.4 assist tradespersons such as carpenters, bricklayers, concrete finishers, roofers etc. 4.5 Erect and dismantle various scaffold types including frame and tube-and-clamp configurations using safe work procedures 4.6 Interpret traffic control plans and assist in backfill, trench safety, and erosion control procedures per OHSA standards

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Assignments and Tests	50%
Lab/Activities	50%

**Date:**

July 31, 2025

**Addendum:**

Please refer to the course outline addendum on the Learning Management System for further information.

