



## COURSE OUTLINE: CON320 - JOBSITE CONTROLS

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<b>Course Code: Title</b>	CON320: CONSTRUCTION JOBSITE CONTROLS
<b>Program Number: Name</b>	4077: CNST. PROJECT MGMT.
<b>Department:</b>	CIVIL/CONSTRUCTION
<b>Academic Year:</b>	2022-2023
<b>Course Description:</b>	In this course, students will gain the knowledge necessary to manage a construction site. Students will learn how to layout a job site, manage documents, materials, tools, and equipment as well as coordinate labour and sub-contracts. In addition, this course will provide detailed information on how to identify concepts related to quality, establish monitoring programs, and conduct project close-out. Students will participate in a collaborative project to incorporate all information learned throughout the program to develop a construction jobsite masterplan.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	42
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>4077 - CNST. PROJECT MGMT.</b>
<b>Please refer to program web page for a complete listing of program outcomes where applicable.</b>	VLO 1 Develop and use strategies to promote continuous professional learning in the construction industry.
	VLO 2 Monitor and support workplace health and safety practices and procedures which are compliant with current legislation and regulations.
	VLO 3 Assess construction project operations for compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in construction methodology.
	VLO 5 Establish and manage relationships among diverse project stakeholders to achieve construction project goals.
	VLO 10 Develop and oversee quality assurance and control processes involved in the completion of construction projects to meet project specifications and industry quality standards.
	VLO 15 Manage a construction site including job site layout, documents, materials, tools, and equipment and the coordination of labourers and sub-contractors to ensure the successful completion of projects.
<b>Essential Employability Skills (EES) addressed in this course:</b>	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.
	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.



	EES 4 Apply a systematic approach to solve problems.
	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 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:** 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 49% and below 0.00 (Fail)

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.

**Attendance**  
Students are only allowed to miss three classes without a documented explanation. One mark will be deducted from your overall grade for each undocumented explanation. The maximum deduction in overall grade is not to exceed 15%. Valid documented explanation include:

- Medical reason
- Family emergency
- Childcare issue
- Transportation problems
- And any other reasonable explanation

The documented explanation must be sent to the course professor by e-mail no later than three days from a missed class. A Doctor note, etc., is to be attached as a PDF file to your e-mail.

<b>Course Outcomes and Learning Objectives:</b>	<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
	1. Develop and use strategies to promote continuous professional learning in the construction industry.	1.1 Keep abreast of changes in the construction industry in general and in the construction project management* field in particular 1.2 Seek out and act upon constructive feedback to enhance work performance 1.3 Identify the roles and benefits of professional organizations and certification e.g., Canadian Construction Association (CCA) Gold Seal

	<p>Certification</p> <p>1.4 Develop a plan to keep pace with and adapt to changing workforce demands and trends, as well as technological advances in the construction project management* field</p>
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
<p>2. Monitor and support workplace health and safety practices and procedures which are compliant with current legislation and regulations.</p>	<p>2.1 Identify employee rights and responsibilities associated with health and safety practices</p> <p>2.2 Identify health and safety training needs and plan opportunities to conduct training</p> <p>2.3 Work in collaboration with health and safety managers and specialists to support a safe and healthy workplace</p> <p>2.4 Analyze a workplace setting and initiate action to handle, collect, transport and dispose of unsafe or hazardous material</p> <p>2.5 Prepare and analyze accident reports and take immediate and appropriate action to prevent any reoccurrence</p> <p>2.6 Comply with all requirements of the Ontario Health and Safety Act, 1990 and Employment Standards Act, 2000, including the conspicuous posting requirements of health and safety documentation</p> <p>2.7 Monitor that workers maintain all required health and safety training and certification such as First Aid, Workplace Hazardous Materials Information System (WHMIS, 2015), Working at Heights and Confined Space Safety training where appropriate</p> <p>2.8 Provide that health and safety documentation is displayed conspicuously</p> <p>2.9 Support the development, and monitor the implementation of a project-specific health and safety plan</p> <p>2.10 Identify and report any deviation or non-compliance in safety protocols</p> <p>2.11 Develop and support a culture of safety in the workplace</p>
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
<p>3. Assess construction project* operations for compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in construction methodology.</p>	<p>3.1 Determine relevant legislation and bylaws that apply to specific construction projects*</p> <p>3.2 Determine required building permits and licenses and monitor construction projects* through required approval processes</p> <p>3.3 Monitor that all inspections are performed and reported as required</p> <p>3.4 Apply the most current information regarding codes and standards</p> <p>3.5 Apply current legislation, standards, codes and regulations, occupational health and safety and labour laws to construction projects*</p>



	3.6 Monitor and ensure that equipment, materials and practices adhere to current relevant law, legislation, standards, codes and bylaws 3.7 Identify codes of ethics of the applicable provincial associations, societies or workplaces 3.8 Apply ethical reasoning to social and contractual issues that evolve when overseeing a construction project*
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
5. Establish and manage relationships among diverse project stakeholders* to achieve construction project* goals.	5.1 Initiate and maintain liaisons with clients, engineers, architects, sub-contractors and vendors and use effective individual and group interpersonal skills 5.2 Collaborate with clients, engineers, architects and others to determine the implementation of construction projects* 5.3 Collaborate with local building and planning authorities
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
10. Develop and oversee quality assurance and control* processes involved in the completion of construction projects* to meet project specifications and industry quality standards.	10.1 Create deficiency lists and recommend solutions 10.1 Monitor, report and correct deficiencies and non-compliance with project specifications 10.3 Resolve project quality and cost deviations 10.4 Meet relevant quality specifications and standards such as Canadian Standards Association (CSA), ASTM International Standards for Building Design and Construction
<b>Course Outcome 6</b>	<b>Learning Objectives for Course Outcome 6</b>
15. Provide knowledge necessary to manage a construction site including job site layout, manage documents, materials, tools, and equipment as well as coordinate labour and sub-contracts.	15.1 Plan construction site layout. 15.2 Management of Construction Materials 15.3 Management of Construction Tools and Equipment 15.4 Perform Document Control activities 15.5 Manage site labour and sub-contractors 15.6 Identify concepts related to quality 15.7 Establish Monitoring Programs 15.8 Project Closeout procedures.

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Assignments	60%
Final Exam	15%
Midterm Exam	15%
Participation	10%

**Date:** January 9, 2023

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