



## COURSE OUTLINE: CON304 - CONST. ENVIRON. LAW

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

<b>Course Code: Title</b>	CON304: CONSTRUCTION ENVIRONMENTAL LAW
<b>Program Number: Name</b>	4077: CNST. PROJECT MGMT.
<b>Department:</b>	CIVIL/CONSTRUCTION
<b>Academic Year:</b>	2022-2023
<b>Course Description:</b>	This course reinforces the important and growing connections between construction industry and the environment. Students will learn about applicable environmental legislations as they relate to the construction industry, including proper procedures on how to incorporate environmental considerations into project planning and execution. Students will learn the logistics of permitting requirements, and jobsite controls to ensure projects meet the appropriate environmental measures.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<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>
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 1 Develop and use strategies to promote continuous professional learning in the construction1.industry
	VLO 2 Monitor and support workplace health and safety practices and procedures which are compliant2.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 4 Analyze and monitor construction processes to ensure that sustainability practices are implemented in accordance with contract documents, industry standards and environmental legislative requirements.
	VLO 7 Perform a feasibility study to inform decisions in the planning phase of a construction project.
	VLO 11 Analyze and manage project risks to mitigate their impact throughout the construction project lifecycle.
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 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:**

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
- Child care issue
- Transportation problems
- And any other reasonable explanation

The documented explanation has to 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.

**Course Outcomes and Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1
Upon successful completion, the student will be able to: 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 Identify the roles and benefits of professional organizations and certification e.g., Canadian Construction Association (CCA) Gold Seal Certification.
Course Outcome 2	Learning Objectives for Course Outcome 2



<p>2. Monitor and support workplace health and safety practices and procedures which are compliant with current legislation and regulations.</p>	<p>2.1 Analyze a workplace setting and initiate action to handle, collect, transport and dispose of unsafe or hazardous material. 2.2 Monitor that works 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><b>Course Outcome 3</b></p>	<p><b>Learning Objectives for Course Outcome 3</b></p>
<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 3.2 Identify and apply legal principles affecting the review and administration of contracts 3.3 Determine required building permits and licenses and monitor construction projects* through required approval processes. 3.4 Monitor that all inspections are performed and reported as required. 3.5 Apply the most current information regarding codes and standards. 3.6 Apply current legislation, standards, codes and regulations, occupational health and safety and labour laws to construction projects. 3.7 Monitor and ensure that equipment, materials and practices adhere to current relevant law, legislation, standards, codes and bylaws. 3.8 Identify codes of ethics of the applicable provincial associations, societies or workplaces. 3.9 Apply ethical reasoning to social and contractual issues that evolve when overseeing a construction project.</p>
<p><b>Course Outcome 4</b></p>	<p><b>Learning Objectives for Course Outcome 4</b></p>
<p>4. Analyze and monitor construction processes to ensure that sustainability practices are implemented in accordance with contract document, industry standards and environmental legislative requirements.</p>	<p>4.1 Identify legislative requirements for environmental compliance. 4.2 Analyze impact studies and assessments and report the results to project stakeholders*. 4.3 Identify and attempt, where possible, to reduce the negative economic, social and environmental impacts of construction projects*. 4.4 Monitor environmental site assessments and document identified remediation strategies implemented. 4.5 Apply the principles of sustainable development, combining environmental stewardship and economic performance in project work. 4.6 Promote sustainability practices* across the building lifecycle and rehabilitation/renewal</p>

	practices. 4.7 Recommend the use of sustainable construction materials, methods and systems to reduce impact on the environment. 4.8 Direct subcontractors to confirm to the environmental protection laws and regulations. 4.9 Review and submit relevant documentation for green certification.
<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
5. Perform a feasibility study to inform decisions in the planning phase of a construction project*.	5.1 Consult with project stakeholders* and regulatory authorities to determine scope of construction project. 5.2 Evaluate historical, geographical and environmental site information for use in planning construction projects*. 5.3 Complete feasibility analysis and cost estimate, for green and alternate strategies, materials and processes.
<b>Course Outcome 6</b>	<b>Learning Objectives for Course Outcome 6</b>
6. Analyze and manage project risks to mitigate their impact throughout the construction project lifecycle*.	6.1 Complete a risk analysis to determine risks associated with specific construction projects* e.g., socioeconomic factors, environmental requirements, organizational relationships or technological problems associated with the design, site or construction processes. 6.2 Integrate risk management strategies into construction project management* plan. 6.2 Plan and implement strategies to eliminate or mitigate identified project risks.
<b>Course Outcome 7</b>	<b>Learning Objectives for Course Outcome 7</b>
11. 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.	11.1 Plan construction site layout. 11.2 Management of Construction Materials. 11.3 Management of Construction Tools and Equipment. 11.4 Establish Monitoring Programs. 11.5 Project Closeout procedures.

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Assignments	30%
Individual Presentations	20%
Participation	20%
Quizzes	30%

**Date:**

August 15, 2022



**Addendum:**

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

