



COURSE OUTLINE: CCT102 - CARPENTRY I

Prepared: Marc Pilon, MBA, P.Eng, FEC, C.E.T, PMP

Approved: Martha Irwin - Dean

Course Code: Title	CCT102: CARPENTRY I
Program Number: Name	4098: CONSTRUCTION TECH.
Department:	CIVIL/CONSTRUCTION
Academic Year:	2025-2026
Course Description:	<p>This course will introduce elements of Carpentry. You will learn about the carpentry trade including relevant professional associations, considerable time will be spent on health and safety aspects that are relevant to the trade and those that will keep you and others safe on the job site.</p> <p>You will be introduced to common Carpentry materials and equipment such as, wood and lumbar, joints and fasteners, nails and woodscrews, drill bits and scaffolding.</p>
Total Credits:	4
Hours/Week:	4
Total Hours:	56
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	4098 - CONSTRUCTION TECH. VLO 2 Identify and adhere to established health and safety practices. VLO 5 Collaborate with a range of tradespersons and project stakeholders to maintain effective working relationships. VLO 8 Solve on-site trade-related construction problems using mathematical equations and geometric concepts. VLO 9 Select, maintain and safely operate hand and power tools and equipment used in the building construction trades. VLO 10 Assist in the preparation of project estimates.
Essential Employability Skills (EES) addressed in this course:	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 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:	<p>Passing Grade: 50%, D</p> <p>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.</p>										
Other Course Evaluation & Assessment Requirements:	<p>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</p> <p>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.</p>										
Books and Required Resources:	<p>Carpentry Level 1 Trainee Guide by NCCER Publisher: Pearson Edition: Fifth ISBN: 978-0-13-340380-0 Construction Health & Safety Manual</p>										
Course Outcomes and Learning Objectives:	<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 participate in health and safety training 1.5 comply with all requirements of the current Ontario Health and Safety Act,1990 1.6 adhere to and maintain all required health and safety training and certification such as First Aid, Workplace Hazardous Materials Information System (WHMIS), Working at Heights and Confined Space Safety training where appropriate 1.7 select and wear Personal Protective Equipment (PPE) </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 solve on-site trade related construction problems using mathematical equations and geometric concepts.</td> <td> 2.1 calculate building elevations 2.2 calculate angles and slopes in framing and roofing layout 2.3 determine calculations for floor layouts and spacing for fixtures and appliances 2.4 calculate areas, volumes and quantities of materials </td> </tr> <tr> <th>Course Outcome 3</th> <th>Learning Objectives for Course Outcome 3</th> </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 participate in health and safety training 1.5 comply with all requirements of the current Ontario Health and Safety Act,1990 1.6 adhere to and maintain all required health and safety training and certification such as First Aid, Workplace Hazardous Materials Information System (WHMIS), Working at Heights and Confined Space Safety training where appropriate 1.7 select and wear Personal Protective Equipment (PPE)	Course Outcome 2	Learning Objectives for Course Outcome 2	2. The graduate has reliably demonstrated the ability to solve on-site trade related construction problems using mathematical equations and geometric concepts.	2.1 calculate building elevations 2.2 calculate angles and slopes in framing and roofing layout 2.3 determine calculations for floor layouts and spacing for fixtures and appliances 2.4 calculate areas, volumes and quantities of materials	Course Outcome 3	Learning Objectives for Course Outcome 3
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3. The graduate has reliably demonstrated the ability to select, maintain and safely operate hand and power tools and equipment used in the building construction trades.	<p>3.1 select, use and maintain hand tools, portable and stationary power tools</p> <p>3.2 use rakes, shovels and wheelbarrows</p> <p>3.3 operate safely and maintain pneumatic hammers, vibrators and tampers</p> <p>3.4 tend to machines or equipment used in construction such as mixers, compressors and pumps</p> <p>3.5 select and use materials, fasteners and connectors commonly used in the</p> <p>3.6 use building layout instruments</p>
Course Outcome 4	Learning Objectives for Course Outcome 4
4. The graduate has reliably demonstrated the ability to collaborate with a range of tradespersons and project stakeholders to maintain effective working relationships.	<p>4.1 take initiative and work independently with minimal supervision</p> <p>4.2 work as an effective team player to complete tasks while promoting a positive work environment</p> <p>4.3 apply effective organizational and time-management strategies in own work</p> <p>4.4 take responsibility for one's job related performance, as an individual and as a member of a multidisciplinary team</p> <p>4.5 obtain assistance and clarification from the appropriate specialist to resolve problems</p>
Course Outcome 5	Learning Objectives for Course Outcome 5
5. The graduate has reliably demonstrated the ability to work in accordance with established sustainability practices.	<p>5.1 use recycled materials when appropriate and alternative resources to reduce impact on environment</p> <p>5.2 minimize waste and use appropriate waste management strategies as directed</p>
Course Outcome 6	Learning Objectives for Course Outcome 6
6. The graduate has reliably demonstrated the ability to assist in the preparation of project estimates.	<p>6.1 apply basic quantity surveying principles to assist in construction takeoff and ordering</p> <p>6.2 assist in the calculation of quantities for formwork and framing</p> <p>6.3 use industry standards relating to allowance for material and time allotments for labour calculations</p>
Course Outcome 7	Learning Objectives for Course Outcome 7
7. The graduate has reliably demonstrated the ability to assist skilled tradespersons and perform labouring tasks at construction sites.	<p>7.1 load and unload construction materials and move materials to work area</p> <p>7.2 remove rubble and debris at construction sites</p> <p>7.3 assist tradespersons such as carpenters and roofers etc.</p> <p>7.4 construct walls and framing</p> <p>7.5 install exterior components such as doors, windows and exterior residential finishes</p>

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Activities	50%
Assignment and Tests	50%



Date:

July 31, 2025

Addendum:

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

