



COURSE OUTLINE

CCT120

Prepared: Sam Spadafora Approved: Corey Meunier

Course Code: Title	CCT120: CONCRETE & FORMWORK I
Program Number: Name	4097: CONS CARPENTRY TECH
Department:	CIVIL/CONSTRUCTION
Semester/Term:	18W
Course Description:	This course focuses on the methods and procedures used in the placement of concrete and form setting. Students will learn about equipment and tools used in concrete placement, and will learn to install concrete and grout material as well as reinforcement components. Students will also learn to interpret blueprints for form setting activities and the use of form setting tools.
Total Credits:	4
Hours/Week:	4
Total Hours:	60
Prerequisites:	CCT100
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	<p>4097 - CONS CARPENTRY TECH</p> <p>#6. communicate technical information to a variety of clients, supervisors and tradespersons to participate in the successful completion of construction projects.</p> <p>#8. solve on-site trade-related construction problems using mathematical equations and geometric concepts.</p> <p>#9. select, maintain and safely operate hand and power tools and equipment used in the building construction trades.</p> <p>#10. assist in the preparation of project estimates.</p> <p>#11. assist skilled tradespersons and perform labouring tasks at construction sites.</p>
Course Evaluation:	Passing Grade: 50%, D
Other Course Evaluation & Assessment Requirements:	<p>EVALUATION PROCESS/GRADING SYSTEM:</p> <p>Theory Testing 35%</p> <p>Application Exercises 50%</p> <p>Attendance 15%</p> <p>Total 100%</p> <p>Grade</p> <p>Definition Grade Point Equivalent</p>

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 W Student has withdrawn from the course without academic penalty.

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 me 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.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Application Exercises	50%
Attendance	15%
Theory testing	35%

Course Outcomes and Learning Objectives:

Course Outcome 1.

Solve on-site related construction problems using mathematical equations and geometric concepts

Learning Objectives 1.

- 1.1. Calculate footing and wall elevations
- 1.2. Calculate volumes and quantities of concrete required for footings and walls

Course Outcome 2.

Select maintain and safely operate hand and power tools and equipment used in the building construction trades.

Learning Objectives 2.

- 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.

- 2.4. Operate and safely maintain pneumatic hammers and vibrators
- 2.5. Tend to concrete mixers used in construction
- 2.6. Use survey equipment to layout concrete formwork

Course Outcome 3.

Assist in the preparation of project estimates.

Learning Objectives 3.

- 3.1. Apply basic quantity surveying principles to assist in concrete and formwork takeoff and ordering
- 3.2. Assist in the calculation of quantities for concrete and formwork
- 3.3. Use industry standards relating to allowances for material and time allotments for labour calculations

Course Outcome 4.

Assist skilled tradespersons and perform laboring tasks at construction sites.

Learning Objectives 4.

- 4.1. Load and unload construction materials and move materials to work area.
- 4.2. Remove rubble and debris at construction sites
- 4.3. Build and dismantle concrete forms
- 4.4. Mix, pour and spread concrete
- 4.5. Assist concrete finishers
- 4.6. Construct forms for footings, flatwork, foundation and walls

Course Outcome 5.

Communicate technical information to a variety of clients, supervisors and tradesperson to participate in the successful completion of construction projects.

Learning Objectives 5.

- 5.1. Use industry specific terminology as it relates to building materials, projects and trades
- 5.2. Read and interpret construction documents including drawings, specifications and schedules
- 5.3. Maintain project records, logs and schedules

Date:

Monday, January 8, 2018

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