



COURSE OUTLINE: CCT120 - CONCRETE/FORMWORK I

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CCT120: CONCRETE & FORMWORK I
Program Number: Name	4080: CIVIL ENG TECHNICIAN 4098: CONSTRUCTION TECH
Department:	CIVIL/CONSTRUCTION
Semesters/Terms:	20W
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
Corequisites:	There are no co-requisites for this course.
Essential Employability Skills (EES) addressed in this course:	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 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
Other Course Evaluation & Assessment Requirements:	EVALUATION PROCESS/GRADING SYSTEM: Theory Testing 35% Application Exercises 50% Attendance 15% Total 100% 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



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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 W Student has withdrawn from the course without academic penalty.

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Solve on-site related construction problems using mathematical equations and geometric concepts	1.1 Calculate footing and wall elevations 1.2 Calculate volumes and quantities of concrete required for footings and walls
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Select maintain and safely operate hand and power tools and equipment used in the building construction trades.	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	Learning Objectives for Course Outcome 3
3. Assist in the preparation of project estimates.	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	Learning Objectives for Course Outcome 4
4. Assist skilled tradespersons and perform laboring tasks at construction sites.	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	Learning Objectives for Course Outcome 5
5. Communicate technical information to a variety of clients, supervisors and tradesperson to participate in the successful completion of construction projects.	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

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Application Exercises	50%



	Attendance	15%
	Theory testing	35%

Date: August 27, 2019

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