



## COURSE OUTLINE: ELR723 - CAN.ELECT.CODE - 2

Prepared: shager

Approved: Corey Meunier, Chair, Technology and Skilled Trades

<b>Course Code: Title</b>	ELR723: CANADIAN ELECTRICAL CODE - LEVEL 2	
<b>Program Number: Name</b>		
<b>Department:</b>	ELEC. APPRENTICES	
<b>Semesters/Terms:</b>	21F, 21W	
<b>Course Description:</b>	This course primarily covers sections of the Canadian Electrical Code dealing with commercial wiring practices. It is a continuation of Canadian Electrical Code - Level 1.	
<b>Total Credits:</b>	4	
<b>Hours/Week:</b>	4	
<b>Total Hours:</b>	40	
<b>Prerequisites:</b>	There are no pre-requisites for this course.	
<b>Corequisites:</b>	There are no co-requisites for this course.	
<b>General Education Themes:</b>	Science and Technology	
<b>Course Evaluation:</b>	Passing Grade: 50%, D  A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.	
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	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  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 W Student has withdrawn from the course without academic penalty.	
<b>Books and Required Resources:</b>	Canadian Electrical Code, Publisher: CSA Edition: 2015	
<b>Course Outcomes and</b>	<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2021-2022 academic year.



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**Learning Objectives:**

Interpret the Canadian Electrical Code (CEC) requirements pertaining to commercial installations.

- Calculate the minimum ampacity of conductors and overcurrent devices for:
  - Apartment and Similar Buildings
  - Schools
  - Hospitals
  - Hotels, motels, dormitories, and buildings of similar occupancies
  - Other types of occupancies
- Interpret the CEC regulations for protection including fuses, circuit breakers and ground fault protection and control devices including switches, panelboards and solid state devices (Section 14).
- List and explain the requirements for different classifications of hazardous locations.
- Interpret the CEC regulations pertaining to hospitals (Section 24).
- Interpret the CEC regulations pertaining to Storage Batteries.
- Explain the CEC installation requirements as applicable to branch circuits, overload, and overcurrent protection for individual continuous and non-continuous duty service motors (Section 28).
- Interpret the CEC regulations as applicable to interior and exterior lighting equipment (Section 30).
- Interpret CEC regulations governing the installation of optical fibre cables including non-conductive optical fibre, conductive optical fibre and hybrid cables (Section 56), coaxial cables including protection, grounding, indoor, outdoor, overhead and underground installations (Section 54), and communication cables including protection, grounding, indoor, outdoor, overhead and underground installations (Section 60).

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Tests	100%

**Date:**

July 30, 2021

**Addendum:**

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

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