



COURSE OUTLINE

ELR723

Prepared: shager Approved: c meunier

Course Code: Title	ELR723: CANADIAN ELECTRICAL CODE - LEVEL 2					
Program Number: Name	6521: CONST & MTCE ELE INT					
Department:	ELEC. APPRENTICES					
Semester/Term:	18S					
Course Description:	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.					
Total Credits:	4					
Hours/Week:	4					
Total Hours:	40					
Course Evaluation:	Passing Grade: 50%, D					
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 W Student has withdrawn from the course without academic penalty.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>					
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>Tests</td> <td>100%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Tests	100%	
Evaluation Type	Evaluation Weight					
Tests	100%					
Books and Required	Canadian Electrical Code, Current edition					

Resources: Publisher: CSA

Course Outcomes and Learning Objectives:

Course Outcome 1.

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

Learning Objectives 1.

- 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).

Date: Monday, April 23, 2018

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