

COURSE OUTLINE: ELR624 - INSTAL. METHODS I

Prepared: shager

Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	ELR624: INSTALLATION METHODS - LEVEL 1		
Program Number: Name	6520: CONST & MTCE ELE BAS		
Department:	ELEC. APPRENTICES		
Semesters/Terms:	19F, 20W, 20F		
Course Description:	This is a hands-on course focusing primarily on residential wiring practices. Installation methods applying to common electrical cables and conduits are also covered.		
Total Credits:	6		
Hours/Week:	6		
Total Hours:	48		
Prerequisites:	There are no pre-requisites for this course.		
Corequisites:	There are no co-requisites for this course.		
General Education Themes:	Science and Technology		
Course Evaluation:	Passing Grade: 50%, D		
Other Course Evaluation & Assessment Requirements:	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 W Student has withdrawn from the course without academic penalty.		
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1	
3 ,	Correctly select and safely install common residential electrical wiring systems and equipment within the regulations and standards set out by the Canadian Electrical Code (CEC).	- Demonstrate the correct installation procedures and wiring connections for common residential switching devices and outlets, ensuring strict adherence to CEC (Canadian Electrical Code) and NBC (National Building Code) regulations Demonstrate the proper installation procedures required for the following wiring methods while ensuring strict adherence to CEC regulations: non-metallic sheathed cable, armoured cable,	

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		and electrical non-metallic tubing. - Demonstrate the ability to install a complete 100 amp, residential service including the following circuits: hot water heater, range outlet, dryer outlet, split duplex receptacle, bathroom outlet, outside weather-proof receptacle, general branch circuit. - Prepare a layout drawing for a service mast and indicate the procedure for installation. - Demonstrate the proper use of common hand tools used in the electrical trade. - Demonstrate the proper installation of enclosures and fittings common to the electrical trade. - Demonstrate the proper installation of cable, conduit and enclosure supports common to the electrical trade. - Demonstrate the proper techniques for the terminating of conductors. - Identify and terminate copper communication and hard wired cables for telephones.
Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Final Project	25%

Grading	System:	

Evaluation Type	Evaluation Weight	
Final Project	25%	
Shop reports/practical work	50%	
Tests	25%	

Date:

August 29, 2019

Addendum:

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

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