

COURSE OUTLINE: ELR624 - INSTAL. METHODS I

Prepared: shager

Approved: Corey Meunier, Chair, Technology and Skilled Trades

ELR624: INSTALLATION METHODS - LEVEL 1		
6520: CONST & MTCE ELE BAS		
ELEC. APPRENTICES		
18F, 19W, 19F		
This is a hands-on course focusing primarily on residential wiring practices. Installation methods applying to common electrical cables and conduits are also covered.		
6		
6		
48		
There are no pre-requisites for this course.		
There are no co-requisites for this course.		
Science and Technology		
Passing Grade: 50%, D		
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 W Student has withdrawn from the course without academic penalty.		
Course Outcome 1	Learning Objectives for Course Outcome 1	
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, mineral insulated cable, metallic sheathed cable, rigid conduits, flexible conduits, liquid-tight conduit, electrical metallic tubing,	
	6520: CONST & MTCE ELE E ELEC. APPRENTICES 18F, 19W, 19F This is a hands-on course foo methods applying to common 6 6 48 There are no pre-requisites for There are no co-requisites for Science and Technology Passing Grade: 50%, D Grade Definition Grade Point Equival 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 diplomal S Satisfactory achievement in U Unsatisfactory achievement in U Unsatisfactory achievement X A temporary grade limited to additional time to complete th NR Grade not reported to Reg W Student has withdrawn from Course Outcome 1 Course Outcome 1 Course Outcome 1 Correctly select and safely install common residential electrical wiring systems and equipment within the regulations and standards set out by the Canadian	

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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	Course Outcome Assessed
Final Project	25%	
Shop reports/practical work	50%	
Tests	25%	

Date:

August 20, 2018

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

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