

Student Name: _____

Subject: Skilled Trades _____

Date: _____

R - retain, D - delete, C - changed

Please note:

- i) Outcomes which deal with safety issues are NOT APPROPRIATE to modify.
- ii) The outcome dealing with personal rules of conduct (Topic 3, Outcome 2.3.1) must also remain unchanged as part of this course.

These are indicated in the tables which follow with the designation DO NOT MODIFY.

Outcomes	R	D	C	Changed outcomes
Topic 1: Apprenticeship Program				
<i>Students will be expected to:</i> 1.1.1 describe the apprenticeship program [4.401]				
Topic 2: The Skilled Trades				
<i>Students will be expected to:</i> 1.2.1 identify the Newfoundland and Labrador designated trades and the Red Seal trades [4.401]				

Topic 3: Courses Common to all Skilled Trades

<p><i>Students will be expected to:</i></p> <p>1.3.1 identify the common core courses in the skilled trades programs in Atlantic Canada [4.401] [4.403]</p>				
<p>1.3.2 understand the necessity of effective and well written workplace correspondence [4.403]</p>				
<p>1.3.3 demonstrate an understanding of the benefits of high quality of service [4.403] [5.401]</p>				
<p>1.3.4 relate the role of organized unions to the skilled tradesperson [4.403] [5.402]</p>				
<p>1.3.5 explore the process by which a person can search for prospective employment [4.401] [4.403]</p>				
<p>1.3.6 evaluate the need for quality assurance in the workplace with respect to codes and standards, quality of materials, and quality of workmanship[5.401]</p>				
<p>1.3.7 understand the potential of entrepreneurial ventures versus regular employment [4.401] [4.402] [4.403]</p>				

Topic 4: Focus on 6 Skilled Trades

<i>Students will be expected to</i>				
1.4.1 identify the technical courses for each of the selected trades, and identify the purpose of each course [4.401] [4.403]				
1.4.2 identify and list the work experiences required for apprenticeship in the selected trades [4.401][4.403]				
1.4.3 research and report job conditions and employment prospects for the selected trades [4.401] [4.403]				

Topic 1: Technology and the Workplace

<i>Students will be expected to</i>				
2.1.1 define and describe technology as a function of knowledge, processes, and products [3.403]				
2.1.2 describe technological literacy and capability [3.403]				
2.1.3 identify technological processes in the skilled trades [3.402][3.403]				

2.1.4 identify troubleshooting as a critical technological capability for a skilled tradesperson [2.405]				
2.1.5 assess the uses of information technology in the skilled trades [4.401]				
Topic 2: Reading Blueprints and Drawings				
<i>Students will be expected to</i>				
2.2.1 correctly use the alphabet of lines [1.401][2.401]				
2.2.2 read and interpret pictorial drawings [1.401][1.402][1.403][2.401][2.402]				
2.2.3 read and interpret orthographic projections [1.401][1.402][1.403][2.401][2.402]				
2.2.4 sketch pictorial drawings [1.405][2.402]				
2.2.5 sketch orthographic projections [1.405][2.402]				

2.2.6 correctly interpret drawing units and scale [1.401][1.402][1.403][2.401][2.402]				
2.2.7 read and interpret floor plans [1.401][1.402][1.403][2.401][2.402]				
2.2.8 sketch floor plans [1.405][2.402]				
2.2.9 read and interpret electrical drawings [1.401][1.402][1.403][2.401][2.402]				
2.2.10 read and interpret plumbing drawings [1.401][1.402][1.403][2.401][2.402]				
2.2.11 sketch electrical and plumbing systems on floor plans [1.405][2.402]				
2.2.12 read and interpret sheet metal drawings [1.401][1.402][1.403][2.401][2.402]				

Topic 3: Working in the Technology Lab

<p><i>Students will be expected to</i></p> <p>2.3.1 develop personal rules of conduct based on standard practise [5.401][5.402][5.403]</p>				<p>DO NOT MODIFY</p>
<p>2.3.2 develop strategies for managing individual and team activities [4.401][5.401][5.402] [5.403]</p>				
<p>2.3.3 maintain a work log (portfolio) for personal and professional assessment [1.405]</p>				
<p>2.3.4 use accuracy and precision when processing materials [1.404][1.405]</p>				
<p>2.3.5 qualify for use of tools and machinery [5.401][5.402][5.403]</p>				
<p>2.3.6 observe demonstrations for each of the construction activities in Unit 3 [5.401][5.402][5.403]</p>				
<p>2.3.7 identify the trades required for each component of the construction sequence [4.401]</p>				

Experiencing the Trades Modularly

Topic 2: Carpentry - Floor Construction

<p><i>Students will be expected to</i></p> <p>3.2.1 review safe practices for use of standard hand, portable power, and stationary power tools for floor construction [2.401][2.402][2.405][3.401][5.402]</p>			<p>DO NOT MODIFY</p>
<p>3.2.2 identify various types of floor framing systems and describe the advantages & disadvantages of various materials [1.401][1.402] [2.401][3.401]</p>			
<p>3.2.3 define live and dead loads and state the important load considerations for floor framing [1.401][1.402] [2.401][3.401]</p>			
<p>3.2.4 identify the various types of floor sheathing and the advantages and disadvantages of each [1.401][1.402] [2.401][3.401]</p>			
<p>3.2.5 create a work plan for the floor framing project [1.402][1.405][4.402] [4.403]</p>			

<p>3.2.6 construct and sheath a floor frame based on the technical drawings supplied by the instructor [1.403][1.404][1.405][2.401] [2.402][2.405][4.402][5.401][5.402][5.403]</p>				
<p>Topic 3: Carpentry - Wall Framing</p>				
<p><i>Students will be expected to</i></p> <p>3.3.1 review safe practices for use of standard hand, portable power, and stationary power tools for wall framing [2.401][2.402][2.405] [3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.3.2 list and describe types of wall framing [1.401][1.402] [2.401][3.401]</p>				
<p>3.3.3 identify the important loading conditions to be considered when framing walls [1.401][1.402] [2.401][3.401]</p>				
<p>3.3.4 identify the various types of wall sheathing and the advantages and disadvantages of each [1.401][1.402] [2.401][3.401]</p>				
<p>3.3.5 create a work plan for the wall framing project [1.402][1.405][4.402] [4.403]</p>				

<p>3.3.6 construct and sheath a wall frame based on the technical drawings supplied by the instructor [1.403][1.404][1.405][2.401] [2.402][2.405][4.402][5.401][5.402][5.403]</p>				
<p>Topic 4: Carpentry - Roof Framing</p>				
<p><i>Students will be expected to:</i></p> <p>3.4.1 review safe practices for use of standard hand, portable power, and stationary power tools for roof truss fabrication [2.401][2.402][2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.4.2 list and describe different roof styles [1.401][1.402] [2.401][3.401]</p>				
<p>3.4.3 explain construction and installation techniques for different types of roof frames [1.401][1.402] [2.401][3.401]</p>				
<p>3.4.4 identify the various types of roof sheathing and the advantages and disadvantages of each [1.401][1.402] [2.401][3.401]</p>				
<p>3.4.5 given the span, develop a layout for a standard “w” roof truss [1.401][1.402][1.403] [1.404][1.405][2.401][2.402][5.402]</p>				

<p>3.4.6 create a work plan for the roof truss project [1.402][1.405][4.402] [4.403]</p>				
<p>3.4.7 construct and sheath a roof section based on the technical drawings supplied by the instructor [1.403][1.404][1.405][2.401] [2.402][2.405][4.402][5.401][5.402][5.403]</p>				
<p>Topic 5: Construction Electrician - Circuits</p>				
<p><i>Students will be expected to:</i></p> <p>3.5.1 discuss safe practices when working with electricity. [2.401][2.402][2.405][3.401] [5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.5.2 demonstrate safe practices for use of hand tools common in the creation of electrical circuits [2.401][2.402][2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.5.3 define electricity and electrical terms [1.405]</p>				
<p>3.5.4 describe the components of a standard residential electrical system [1.405]</p>				
<p>3.5.5 list the electrical code requirements for residential lighting and receptacle circuits. [1.405]</p>				

<p>3.5.6 configure and test low voltage circuits in common residential use [1.401][1.402][1.403][1.404][1.405][2.401][2.402][5.402]</p>				
<p>Topic 6: Construction Electrician-Residential Wiring</p>				
<p><i>Students will be expected to:</i></p> <p>3.6.1 review safe practices when working with electricity. [2.401][2.402][2.405][3.401] [5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.6.2 demonstrate safe practices for use of hand and power tools common in the installation of residential electrical circuits [2.401] [2.402][2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.6.3 review electricity and electrical terms [1.405]</p>				
<p>3.6.4 identify and describe the devices used in a residential electrical system [1.405]</p>				
<p>3.6.5 describe the types of electrical cables and wiring. [1.405]</p>				
<p>3.6.6 list the electrical code requirements in the installation of cables and wiring. [1.405]</p>				

<p>3.6.7 create a work plan for the installation of a residential electrical circuit [1.402][1.405] [4.402][4.403]</p>				
<p>3.6.8 install a residential electrical circuit based on the technical drawings supplied by the instructor [1.403][1.404][1.405][2.401] [2.402][2.405][4.402][5.401][5.402][5.403]</p>				
<p>Topic 7: Plumber - Toilet Installation</p>				
<p><i>Students will be expected to:</i></p> <p>3.7.1 demonstrate safe practices for use of hand and power tools common in toilet installation procedures. [2.401][2.402][2.405] [3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.7.2 identify, describe, and give the function of the components of a residential water supply system for a toilet [1.401][1.402] [2.401][3.401]</p>				
<p>3.7.3 identify, describe, and give the function of the components of a waste water drainage system for a toilet [1.401][1.402] [2.401][3.401]</p>				
<p>3.7.4 identify the different types of fixtures, tubing, pipes, connectors, and fittings used in toilet installation [1.401][1.402] [2.401][3.401]</p>				

<p>3.7.5 install components in a toilet tank [1.401] [1.402][1.403][1.404][1.405][2.401] [2.402][5.402]</p>				
<p>3.7.6 install a toilet, including supply and waste lines, using manufacturers instructions [1.401][1.402][1.403][1.404] [1.405] [2.401][2.402][5.402]</p>				
<p>Topic 8: Plumber - Sink Installation</p>				
<p><i>Students will be expected to:</i></p> <p>3.8.1 demonstrate safe practices for use of hand and power tools common in sink installation procedures. [2.401][2.402][2.405] [3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.8.2 identify, describe, and give the function of the components of a residential water supply system for a sink [1.401][1.402] [2.401][3.401]</p>				
<p>3.8.3 identify, describe, and give the function of the components of a waste water drainage system for a sink [1.401][1.402] [2.401][3.401]</p>				
<p>3.8.4 identify the different types of fixtures, tubing, pipes, connectors, and fittings used in sink installation [1.401][1.402] [2.401][3.401]</p>				

<p>3.8.5 install a sink and faucets, including supply and waste lines, using manufacturers instructions [1.401][1.402][1.403][1.404] [1.405] [2.401][2.402][5.402]</p>				
<p>Topic 9: Lather</p>				
<p><i>Students will be expected to:</i></p> <p>3.9.1 research and demonstrate safe practices for the use of Lather tools [2.401][2.402] [2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.9.2 describe the properties, advantages and disadvantages of various wall sheathing [1.405]</p>				
<p>3.9.3 create a workplan for installing drywall sheathing, green board, or concrete backerboard [1.405]</p>				
<p>3.9.4 install drywall to framed walls [1.401] [1.402][1.403][1.404][1.405][2.401][2.402][5.402]</p>				
<p>3.9.4 install corner beading [1.401][1.402] [1.403][1.404][1.405][2.401][2.402][5.402]</p>				

Topic 10: Painter-Decorator

<p><i>Students will be expected to:</i></p> <p>3.10.1 research and demonstrate safe practices for the handling of painting materials and various hand tools used in the preparation and painting of a surface [2.401][2.402][2.405] [3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.10.2 demonstrate safe practices in the use of hand and power tools commonly used in the application and finishing of a plaster surface [1.405]</p>				<p>DO NOT MODIFY</p>
<p>3.10.3 describe methods for cleaning and preparing walls to receive paint or other coverings [1.405]</p>				
<p>3.10.4 describe the variety of finishes available for application to prepared surfaces. [1.405]</p>				
<p>3.10.5 create a work plan for the preparation and finishing of the interior surfaces of a wall area [1.402][1.405] [4.402][4.403]</p>				
<p>3.10.6 prepare, tape and plaster drywall joints and corners [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>				

<p>3.10.7 prepare surfaces for paint or coverings [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>				
<p>3.10.8 apply finishes using proper techniques [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>				
<p>Topic 11: Masonry - Ceramic Wall Tile Installation</p>				
<p><i>Students will be expected to:</i></p> <p>3.11.1 demonstrate safe practices for use of standard hand, portable power, and stationary power tools for ceramic tile installation [2.401][2.402][2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.11.2 describe methods for preparing walls for installation of ceramic tile [1.402]</p>				
<p>3.11.3 describe various materials used for installation of ceramic tile on a wall [1.401][1.402][2.401] [3.401]</p>				
<p>3.11.4 describe proper ways of installing backing material [1.402][1.405]</p>				

<p>3.11.5 given the nominal size, develop a work plan for the installation of ceramic tile simulating a bathtub installation [1.402][1.405][4.402] [4.403]</p>				
<p>3.11.6 Layout the proper tile spacing for tile installation on a bathroom wall [1.402][1.405] [4.402][4.403]</p>				
<p>3.11.7 Install ceramic tile on a wall using industry standards and practices [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>				
<p>3.11.8 Grout ceramic tile using industry standards and practices [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>				
<p>Topic 12: Masonry - Ceramic Floor Tile Installation</p>				
<p><i>Students will be expected to:</i></p> <p>3.12.1 review safe practices for use of standard hand, portable power, and stationary power tools for ceramic tile installation [2.401][2.402][2.405][3.401][5.402]</p>				<p>DO NOT MODIFY</p>
<p>3.12.2 describe methods for preparing walls for installation of ceramic tile [1.402]</p>				

<p>3.12.3 describe various materials used for installation of ceramic tile on a floor [1.401][1.402][2.401] [3.401]</p>			
<p>3.12.4 given the nominal size, develop a work plan for the installation of ceramic tile simulating a floor installation [1.402][1.405][4.402] [4.403]</p>			
<p>3.12.5 Layout the proper tile spacing for tile installation on a floor area [1.402][1.405] [4.402][4.403]</p>			
<p>3.12.6 Install ceramic tile using industry standards and practices on a floor area [1.401][1.402] [1.403][1.404][1.405][2.401][2.402][5.402]</p>			
<p>3.12.7 Grout ceramic tile using industry standards and practices [1.401][1.402][1.403][1.404] [1.405][2.401][2.402][5.402]</p>			