

TRADE: CARPENTRY LEVEL / YEAR: ONE

Apprenticeship Course Outline

(based on former ITAC curriculum)

Module A	DESCRIBE THE CARPENTRY TRADE	
	Describe the Carpentry Trade	
	Practice Good Work Habits	
Module B	USE SAFE WORK PRACTICES	
	Describe Shop and Site Safety Practices	
	Describe Personal Safety Practices	
	Identify Precautions when Working With Hazardous Materials	
	Use Basic Body Mechanics when Lifting or Moving Objects	
	Extinguish Small Fires	
Module C	INTERPRET DRAWINGS & SPECIFICATIONS	
	Read Residential Drawings	
	Sketch and Draw Simple Details	
	Interpret Specific Information from the British Columbia Building Code	
	Estimate Material Quantities and Identify Construction Details	
Module D	IDENTIFY MATERIALS	
	Describe Wood Characteristics	
	Select Framing and Finishing Lumber	
	Select Panel Products	
	Select Fasteners, Adhesives and Caulking Compounds	
	Select Finish and Framing Hardware	
Module E	USE HAND TOOLS	
	Describe General Safety Rules for Using Hand Tools	
	Describe Measuring and Layout Tools	
	Use and Maintain Cutting Tools	
	Use and Maintain Edge-Cutting Tools	
	Use and Maintain Drilling and Boring Tools	
	Describe the Use and Maintenance of Fastening Tools	
	Describe the Use and Maintenance of Miscellaneous Tools	
	Use Hand Tools to Construct a Wood Project	
Module F	USE PORTABLE POWER TOOLS	
	Use and Maintain Portable Power Tools	
	Use and Maintain Powder-Actuated Tools	
	Use and Maintain Chain Saws	
Module G	USE SHOP EQUIPMENT	
	Use and Maintain a Table Saw	
	Use and Maintain a Radial Arm Saw	
Module H	USE SURVEY INSTRUMENTS	
	Use Optical Levels	
	Use Electronic Instruments	

Module	J	USE SITE LAYOUT	
		Layout Building Locations	

Module	K	BUILD CONCRETE FORMWORK	
		Build Footing and Wall Forms	

Module	L	FRAME RESIDENTIAL HOUSING	
		Describe Types of Wood Frame Construction	
		Build Foundations and Floors	
		Build Walls and Partitions	
		Build Gable Roofs with Ceiling Joists	
		Build Hip Roofs	
		Build Straight Stairs	

**TRADE: CARPENTRY
LEVEL / YEAR: TWO**

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Module B	USE SAFE WORK PRACTICES	
	Describe Shop and Site Safety Practices	
	Describe Excavation Shoring and Building Demolition Practices	
	Describe Safety Committees	
Module C	INTERPRET DRAWINGS & SPECIFICATIONS	
	Identify Required Permits and Inspections	
	Read Commercial Drawings	
	Sketch and Draw Concrete Form Details	
Module D	IDENTIFY MATERIALS	
	Select Fasteners, Adhesives and Caulking Compounds	
	Describe Concrete Types, Materials, Additives and Treatments	
	Calculate Quantities of Concrete	
Module F	USE PORTABLE POWER TOOLS	
	Use Concrete Drilling, Chipping and Grinding Tools	
Module H	USE SURVEY INSTRUMENTS	
	Use Optical Levels	
Module I	USE RIGGING & HOISTING EQUIPMENT	
	Use Scaffolds and Ladders	
	Describe Fibre Ropes and Tie Knots, Bends and Hitches	
	Use Hoisting Equipment	
Module J	USE SITE LAYOUT	
	Build Batter Boards, Set Lines and Square Corners	
Module K	BUILD CONCRETE FORMWORK	
	Describe Construction Details for Concrete Forms	
	Build Suspended Slab Forms and Slab-on-Grade Forms	
	Describe Procedures to Embed Metal Devices, Frames and Dock Leveller in Concrete	
	Build Stair Forms	
	Describe Methods of Placing, Finishing and Curing Concrete	
	Build Specialized Formwork	
	Describe Stripping Techniques for Concrete Formwork	

TRADE: CARPENTRY LEVEL / YEAR: THREE

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Module C	INTERPRET DRAWINGS & SPECIFICATIONS	
	Read Residential Drawings	
	Interpret Specific Information from the British Columbia Building Code	
	Read Commercial Drawings	
	Identify Errors and Conflicts in Drawings and Specifications	
	Draw Finishing Details	
	Estimate Material Quantities and Identify Construction Details	
Module D	IDENTIFY MATERIALS	
	Select Framing and Finishing Lumber	
	Select Panel Products	
	Select Fasteners, Adhesives and Caulking Compounds	
	Select Finish and Framing Hardware	
Module E	USE HAND TOOLS	
	Use Hand Tools	
Module F	USE PORTABLE POWER TOOLS	
	Use and Maintain Portable Power Tools	
Module G	USE SHOP EQUIPMENT	
	Use and Maintain a Table Saw	
	Use and Maintain a Radial-Arm Saw	
	Use and Maintain a Band Saw	
	Use and Maintain and Drill Press	
	Use and Maintain and Jointer	
	Use and Maintain a Thickness Planer	
	Use and Maintain Sanding Machines	
Module H	USE SURVEY EQUIPMENT	
	Use Transits and Theodolites	
Module L	FRAME RESIDENTIAL HOUSING	
	Build Walls and Partitions	
	Build Intersecting Roofs	
	Build Straight Stairs	
	Build Stairs with Landings	
Module M	USE SPECIAL CONSTRUCTION FEATURES	
	Identify Security and Fire Safety Measures	
Module N	APPLY FINISHING MATERIALS	
	Applying Roofing Materials	
	Install Doors and Windows	
	Apply Exterior Finishes	
	Apply Wall Finishes and Trim	
	Build Cabinets and Apply Plastic Laminates	

TRADE: CARPENTRY LEVEL / YEAR: FOUR

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Module C	INTERPRET DRAWINGS & SPECIFICATIONS	
	Interpret Specific Information from the British Columbia Building Code	
	Identify Errors and Conflicts in Drawings and Specifications	
	Describe Specifications, Contracts and Terms	
	Draw House Plans	
Module D	IDENTIFY MATERIALS	
	Describe Concrete Types, Materials, Additives and Treatments	
	Calculate Quantities of Concrete	
	Explain Masonry Terms	
Module H	USE SURVEY INSTRUMENTS	
	Use Transits and Theodolites	
	Use Electronic Instruments	
Module I	USE RIGGING AND HOISTING EQUIPMENT	
	Use Hoisting Equipment	
	Describe Construction and Use of Special Scaffolds and Swing Stages	
Module J	USE SITE LAYOUT	
	Identify Site Conditions	
	Describe Drainage Systems	
Module K	BUILD CONCRETE FORMWORK	
	Describe Methods of Placing, Finishing and Curing Concrete	
	Describe Prestressed Concrete and State Its Purpose	
Module L	FRAME RESIDENTIAL HOUSING	
	Build Unequal Pitch Intersecting Roofs	
	Build Winder Stairs	
	Build Circular Stairs	
Module M	USE SPECIAL CONSTRUCTION FEATURES	
	Build Special Framing	
	Describe Treated-Wood and Preserved Wood Foundations	
	Describe Heavy-Timber Construction	
	Describe Pile Foundations and Shoring	
	Install Steel Stud Framing and Wallboard	
Module N	APPLY FINISHING MATERIALS	
	Apply Wall Finishes and Trim	
	Install Suspended Ceilings and Describe Moveable Partitions	
Module P	INSULATION & ENERGY CONSERVATION	
	Describe Insulation Materials, and Air and Vapor Barriers	
	Describe Energy Conservation Construction Methods	

Due to the redevelopment of apprenticeships in BC course outlines are subject to change without notice. These course outlines are intended for use as an interim guide in the transition period.