

# Joinery Foundation Program

W = Written Tests

PA = Specific Practical Assignment

P = Practical Component

## COMPETENCY PROFILE CHART

LINE	MAIN OBJECTIVES								
	1	2	3	4	5	6	7	8	9
Use Safe Work Practices 1	Describe the Joinery Trade	Describe Safe Work Habits and Material Handling	Describe W.C.B. Regulations and Accident Compensation	Describe WHMIS	Describe Fire Prevention and Control				
	W-#11	W-#12 PA	W-#13	W-#14	W-#15				
Solve Mathematical Problems 2	Solve Problems Involving Whole Numbers	Solve Problems Involving Fractions	Solve Problems Involving Decimal Fractions	Convert Metric and Imperial Measurements	Solve Problems Involving Ratio and Proportion	Solve Problems Involving Percent	Solve Problems Involving Roots and Powers	Interpret Simple Graphs	Solve Problems Involving Simple Formulas
	W - #21	W - #22	W - #23	W - #24	W - #25	W - #26	W - #27	W - #28	W - #29
	Solve Problems Involving Perimeters, Areas and Volumes	Solve Problems Involving Angles, Triangles and Geometric Construction							
	W - #210	W - #211							
Apply Layout Techniques 3	Identify Standard Lines, Letters and Scales Used on Drawings	Identify and Sketch Orthographic Drawings	Identify and Sketch Pictorial Drawings	Identify Standard Metric Dimensioning Practices	Read Residential Blueprints	Identify Symbols and Abbreviations	Locate Information in the British Columbia Building Code	Read and Interpret Specifications	Describe Types and Uses of Shop Drawings
	W - #31 P	W - #32 PA	W - #33 PA	W - #34 PA	W - #35	W - #36	W - #37	W - #38	W - #39
	Describe Procedures for Producing Shop Drawings (Rod Layouts)	Apply Layout Techniques	Read and Interpret Shop Drawings	Calculate Lumber Quantities and costs	Calculate Quantities and Costs of Sheet Goods				
	W - #310 PA	W - #311 PA	W - #312	W - #313	W - #314				

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Care and Use of Hand Tools 4	Describe the Use of Measuring and Marking Tools	Describe the Use of Sawing Tools	Describe the Use of Planes	Describe the Use of Chisels and Spokeshaves	Describe the Use of Assembly Tools and Clamps	Describe the Use of Files and Scrapers	Describe the Use of Metalworking Tools		
	W - #41     P	W - #42     P	W - #43   PA	W - #44   PA   P	W - #45     P	W - #46   PA	W - #47     P		
Identify Woodworking Joints 5	Identify Lap, Dado, Rabbet, Butt and Miter Joints	Identify Mortise & Tenon and Dowel Joints	Identify Scarf, Finger, Dovetail and Box Joints	Identify Tongue and Groove, S, Lock, Miter and Biscuit Joints					
	W - #51     P	W - #52     P	W - #53   PA	W - #54     P					
Describe Portable Power Tools 6	Describe Electric and Air Power Sources	Describe the Use of Portable Power saws	Describe the Use of Portable Drills	Describe the Use of Portable Planes and Sanders	Describe the Use of Portable Fastening Tools	Describe the Use of Portable Routers	Describe the Use of Portable Biscuit Joiners	Describe the Basic Maintenance of Portable Power Tools	
	W - #61     P	W - #62	W - #63   PA	W - #64     P	W - #65     P	W - #66     P	W - #67   PA	W - #68	
Use Woodworking Machines 7	Use the Drill Press	Use the Radial Arm	Use the Table Saw	Use the Band Saw and Scroll Saw	Use the Jointer	Use the Thickness Planer	Use the Mortiser and Tenoner	Use the Single Spindle Dowel Boring Machine	Use the Overhead Router
	W - #71   PA	W - #72     P	W - #73   PA	W - #74   PA	W - #75   PA	W - #76     P	W - #77   PA	W - #78   PA	W - #79   PA
	Use Sanders	Use the Lathe	Use the Shaper	Use Presses	Identify Production Machinery	Maintain Joinery Shop Equipment			
	W - #710   PA	W - #711   PA	W - #712   PA	W - #713	W - #714	W - #715   PA			

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Identify Materials 8	Describe the Structure and Properties of Wood	Describe Lumber Production, Grading and Handling	Identify Solid Wood	Identify Types of Composition Board	Identify Types of Plywood	Identify Plastic Laminates	Identify Specialty Materials	Identify Adhesives and Sealants	Identify Fasteners
	W - #81	W - #82	W - #83 PA	W - #84	W - #85	W - #86	W - #87 PA	W - #88	W - #89
	Identify Cabinet Hardware								
	W - #810 PA								
Use Machining and Assembly Techniques 9	Interpret Cabinet Part Terminology	Describe Breakout Procedures for Solid Wood	Describe Sheet Good Breakout and Detail Machining	Describe Cabinet Assembly	Describe Procedures for Applying Plastic Laminate	Describe Procedures for Installing Hardware			
	W - #91	W - #92 P	W - #93 P	W - #94 P	W - #95 PA	W - #96 P			
Apply a Finish 10	Prepare Wood Surfaces for Finishing	Describe Finishing Materials	Apply Brushed, Wax and Oil Finishes						
	W - #101 P	W - #102	W - #103 P						
Install Millwork 11	Describe Millwork Marking and Panel Installation	Describe Cabinet Installation Procedures							
	W - #111	W - #112							

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Use Computerized Software and Equipment 12	Use Basic CAD Drawing and Editing Commands	Use Advanced CAD Drawing and Editing Commands							
	W - #121 P	W - #122 P							
Prepare for Employment 13	Describe Millwork Documents	Describe Business and Labor Organizations	Set Personal Goals	Identify Legislation affecting Employment	Prepare for Employment				
	W - #131	W - #132	W - #133	W - #134	PA				
Project Exams 14	Project Exam #1	Project Exam #2	Project Exam #3	Project Exam #4	Project Exam #5	Project Exam #6			
	W#1	W#2	W#3	W#4	W#5	W#6			