

COURSE OUTLINE**Course:** 70274 CONSTRUCTION PRE-APPRENTICE**Total Course Hours:** 360.00**CBEDS Title:** CARPENTRY**CBEDS #:** 5507**Job Title(s):****Prerequisites:****Course Description:**

This course teaches beginning skills for use in such occupations as a carpenter, cement finisher, plasterer, drywaller, roofer and painter.

Hours	
Class	OJT

Occupational Competencies

1-7 on the Course Outline are generic to all BVROP courses and include the BVROP Student Outcomes

5.00		1 <u>ORIENTATION</u>	<ul style="list-style-type: none"> A Demonstrates awareness of course objectives and competencies. B Demonstrates knowledge of 12.0 A & B.
10.00		2 <u>WORK BASE LEARNING SAFETY</u>	<ul style="list-style-type: none"> A Understands causes and results of industrial accidents. B Demonstrates knowledge of proper work place attire and protective equipment. C Demonstrates knowledge of proper material handling and lifting. D Demonstrates knowledge of proper hazards material handling and fire and electrical safety. E Applies machinery safety and demonstrates machine operation procedures under supervision.
5.00		3 <u>LEGAL CONSIDERATIONS</u>	<ul style="list-style-type: none"> A Knowledge of OSHA manufacturing and work place safety rules and regulations. B Understands accident reporting procedures.
5.00		4 <u>LEADERSHIP SKILLS</u>	<ul style="list-style-type: none"> A Displays appropriate professional behavior via initiative, creativity, self control and interest/enthusiasm. B Demonstrates leadership skills by working independently, making appropriate decisions, working well with others and taking constructive criticism appropriately.
50.00		5 <u>TOOLS</u>	<ul style="list-style-type: none"> A Demonstrates safe and proper operation of hand tools. B Demonstrates safe and proper operation of power tools. C Construct a power machine project.
15.00		6 <u>PLAN READING, MEASUREMENT AND LAY-OUT</u>	<ul style="list-style-type: none"> A Demonstrates basic plan reading skills. B Demonstrates knowledge of measurement and lay-out. C Demonstrates proper bill of materials listing. D Demonstrates project cost estimating. E Demonstrates basic math skills related to carpentry.
70.00		7 <u>FRAMING FUNDAMENTALS</u>	<ul style="list-style-type: none"> A Identifies types of framing systems. B Identifies sub-floor, wall and roof framing members C Has basic knowledge of building codes. D Built a model framed house to scale.

Hours	
Class	OJT

15.00		8	<u>SUB-FLOOR FRAMING</u>	<p>A Has knowledge of sub-floor framing.</p> <p>B Has knowledge of sub-floor metal connectors and fasteners.</p> <p>C Can build a sub-floor.</p>
30.00		9	<u>WALL FRAMING</u>	<p>A Constructs exterior walls and partitions.</p> <p>B Has knowledge of metal frame construction.</p> <p>C Estimates wall materials.</p> <p>D Leads crew in a wall framing project.</p>
30.00		10	<u>ROOF FRAMING</u>	<p>A Lay-out and cut a gable roof rafter template.</p> <p>B Frames a small gable roof.</p> <p>C Lay-out and cut a hip roof rafter template.</p> <p>D Have knowledge of truss roof construction.</p> <p>E Install roof sheathing.</p> <p>F Install fascia board.</p>
20.00		11	<u>STAIR CONSTRUCTION</u>	<p>A Has knowledge of stair components.</p> <p>B Calculates stair rise and run.</p> <p>C Lays out and cuts stair stringer.</p> <p>D Assembles stairs.</p>
10.00		12	<u>TIMBER CONSTRUCTION</u>	<p>A Constructs a wood deck.</p> <p>B Constructs a patio cover.</p> <p>C Has knowledge of and use of metal connectors.</p> <p>D Estimates materials for a wood deck or patio deck.</p>
15.00		13	<u>CONCRETE FORMING</u>	<p>A Sets-up and uses builders level.</p> <p>B Sets forms to elevation.</p> <p>C Knows hand signals.</p> <p>D Has knowledge of lasler level.</p>
40.00		14	<u>FOOTING FORMS</u>	<p>A Lays out building lines and erect batter boards.</p> <p>B Sets forms for a footing.</p> <p>C Strips and stores form materials.</p>

Additional Course Information

Articulation: None

Instructional Strategies: Lecture, media/videos, simulations, demonstrations, lab

Instructional Materials: Modern Cabinetmaking, William Umstatto, Charles Davis, Goodheart-Willcox 2000

Certificate is issued with competencies obtained to all students who completed the course

TOTAL HOURS

Class	OJT	Course
340.00	20.00	360.00