

## Course Outline/Description— Carpentry



### DIPLOMA PROGRAM

24 weeks – 33 semester credit hours (DAY)

52 weeks – 33 semester credit hours (EVENING)

Total 720 hours

### OBJECTIVE

Students learn hands-on new construction skills. They build a house to scale in order to learn framing, drywall, rough and fine finishing, siding, shingled roofing, and door and window installation. Students construct a full size deck and staircase. Training includes blueprint reading, safety practices, and trade mathematics.

### EMPLOYMENT OPPORTUNITIES

Graduates are prepared for entry-level employment as carpenters, carpentry assistants, carpentry apprentices, maintenance carpenters, finish carpenters, house repairers, door installers, cabinet and trim installers, lay-out workers, framers, assemblers, and woodworkers.

	COURSE TITLE	CREDIT HOURS
2001	Introduction to Carpentry	1.0
2002	Mathematics for Carpentry	4.0
2003	Carpentry Tools	1.0
2004	Blueprints	2.0
2005/ 2009	Wood, Wood Fasteners, and Hardware	1.5
2006	Framing	6.5
2007	Rough Finishing	5.5
2008	Fine Finishing	6.0
2011	Decking	2.0
616	Professional Development	3.5

## **Course Outline/Description— Carpentry**

### **2001 INTRODUCTION TO CARPENTRY**

Students are introduced to the various carpentry skills required by this building trade and oriented to trade safety practices, classroom regulations, and carpentry terminology.

### **2002 MATHEMATICS FOR CARPENTRY**

This mathematics course provides a review of basic mathematics as used in the carpentry field with a focus on measurements, fractions, use of the ruler and measuring tape, and an architect scale.

### **2003 CARPENTRY TOOLS**

Students will learn types and proper use of carpentry tools, such as hand and power tools, hammers, saws, levels, table saws, miter saws, routers, and sanders.

### **2004 BLUEPRINTS**

Students develop an awareness of blueprint terminology. They learn basic blueprint reading, including recognizing distances, placement, and symbols. Students learn to interpret detailed views and prints.

### **2005/2009 WOOD, WOOD FASTENERS, AND HARDWARE**

Students learn about the various types and sizes of lumber. Students develop a working knowledge of the use of fasteners in carpentry. Also covered is the installation of hardware, such as locks, deadbolts, and other accessories.

### **2006 FRAMING**

Students learn layout, setting joists, and both wall and roof framing.

### **2007 ROUGH FINISHING**

Students learn to build stairs and to construct wall sheathing, sub-flooring, vinyl siding, and shingle roofing.

### **2008 FINE FINISHING**

Students learn to install doors, windows, and wood trim and to perform related millwork. They learn to install kitchen cabinets, and counter tops. Students also learn to lay-out and install ceramic tile, acoustic ceilings, and vinyl tile.

### **2011 DECKING**

Students receive instruction in the layout and construction of wood decks.

### **616 PROFESSIONAL DEVELOPMENT**

Students learn the skills employers require for positive work relationships and long-term employment. They include four sets of workplace competencies: problem solving and other cognitive skills, oral communication skills, personal qualities and work ethic, and interpersonal and teamwork skills. Students also learn about the importance of professionalism on the jobsite and employer expectations. Employment Specialists teach students effective interviewing and job search skills.