South Central College

CARP 1110  Carpentry Tools and Safety

Course Outcome Summary

Course Information

Description  
The course covers the safe operations of carpentry tools in the construction industry. Hand tools and stationary power tools will be covered. Job site safety, scaffolding, and ladders will be covered in depth. (Prerequisite: Declare Carpentry as a major)

Total Credits  2
Total Hours  64

Types of Instruction

Instruction Type  Credits/Hours
Lab  2/64

Pre/Corequisites

Declare Carpentry as a major

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Utilize basic hand tools.
   
   Learning Objectives
   Identify a tape measure, squares, and chalk lines.
   Use a tape measure, squares, and chalk lines appropriately.
   Demonstrate safe use of a utility knife.

2. Demonstrate ability to operate power hand tools.
   
   Learning Objectives
   Use a cordless drill and miter box.
   Demonstrate handling of a variety of saws including jig saw, sawzall, and slide saw.
3. **Demonstrate ability to operate stationary power tools.**

   Learning Objectives
   Identify a variety of stationary power tools and their uses.
   Demonstrate proficiency with a table saw, drill press, band saw, and jointer.

4. **Demonstrate tool care and handling.**

   Learning Objectives
   Identify toolbox design options.
   Build a toolbox for safekeeping of tools.
   Utilize creativity in toolbox creation.
   Apply a plan to build a toolbox.

5. **Utilize personal protective equipment.**

   Learning Objectives
   Wear safety glasses.
   Utilize a hard hat.
   Use high-visibility vests when appropriate.

6. **Use scaffolding safely.**

   Learning Objectives
   Identify use of wall brackets.
   Explain use of safeway scaffold and scaffold planks.
   Demonstrate scaffold safety.

7. **Apply ladder safety.**

   Learning Objectives
   Explain the use of many kinds of ladders in carpentry.
   Demonstrate extension ladder safety.
   Apply step ladder safety precautions.

8. **Explain fall protection protocol.**

   Learning Objectives
   Explain use of handrail brackets, harness, and lanyard.
   Identify safety procedures to prevent falls.

9. **Apply code requirements when appropriate.**

   Learning Objectives
   Explain different kinds of code and safety requirements.
   Identify code requirements for a job site.
   Demonstrate job site safety requirements.

**SCC Accessibility Statement**

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Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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