

Carpentry Lesson Plan

Course: Carpentry	Grade: 9-12
Instructor:	CIP Code: 460201
Unit: Tool and Material Identification	Title: Review of Tools, Materials, and Fasteners
<p>Knowledge, Content and Skills: Students will be able to: identify hand tools, power tools and materials, and describe the use and maintenance of each. Students will gain knowledge on why tools are important.</p> <p>Performance objective: To refamiliarize students with each tool by completing the lead up exercises and practicing using the tools and to develop safety competency. Lead-up exercises for each tool, review of use and maintenance and safety of each tool. Review competency check list for each student.</p>	
<p>Competency: 3. Demonstrate use of appropriate personal safety equipment and proper use of emergency equipment. 7. Explain terms commonly used to describe wood/lumber and identify lumber materials. 8. Demonstrate proper selection and use of a variety of fasteners and adhesives. 9. Demonstrate proper safety and use of hand tools. 10. Demonstrate proper use and safety of common power tools.</p>	
<p>Common Core: Listening: Students will demonstrate the ability to listen and view critically for variety of purposes. Reading Informational Texts Competency: Students will demonstrate the ability to comprehend, analyze and critique a variety of increasingly complex print and non-print informational texts.</p>	
<p>Tools, supplies and reference materials:</p> <p><i>Hand Tools:</i> Tape measure, Combination square, speed square, Framing square, compass, protractor, sliding T-bevel, Framing square, straight edge, chalk line, block plane, chisel, C-clamp, Hand Screw Clamp, Bar/Pipe Clamps, Claw Hammer, Nail set, Adjustable, open ended and socket wrenches, Wood rasp, sanding block, utility knife.</p> <p><i>Power Tools:</i> Belt Sander, Circular Saw, Miter Saw, Electric Drill and twist/spade bits, Random Orbit Sander, Pneumatic stapler and nailer, Router, Saber saw, Screw gun.</p> <p><i>Materials:</i> Gather the different species of wood you like to use in your shop. Remember plywood and engineered materials and the corresponding fasteners</p> <p>Career Connections Project Book 2 pages: 26-64. (Enough for each student or small group)</p>	
<p>Methods of instruction: Demonstration on how to identify and the use and maintenance of each tool, lecture on safe work habits and respect for tools, reference to the Career Connections Book 2, and hands-on practice with each tool.</p> <p>Estimated time: 4 hrs. Number of students: 10-15</p>	
<p>Task analysis or activities: Students will work in small groups at shop tables, with all the previously mentioned hand or power tools, working together to complete all the lead-up exercises and helping each other as they progress at their own pace.</p>	



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Evaluation: Students will be graded on their use of time, safety methods, quality of work, cleaning and organization of their work area, interaction with other students, and employability skills. Manipulative skills assessments and written evaluations.

Instructors Notes: