**Lesson Information**

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| Lesson: (2 of 2) Hand and Power Tools Length: 90 minutes  Unit: (1 of 4) Materials and Tools  Course: Carpentry |

**Content Assumptions**

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| Prior to this class, students have taken a safety course as well as the previous lesson, Building Materials, Fasteners, and Adhesives (cross-references to be included later). |

**Essential Questions**

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| 1. Why are different tools used to accomplish different tasks? |

**Objectives Assessments**

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| After completing this lesson, students will be able to:   1. Recognize unsafe behavior and demonstrate safe alternatives. 2. Recognize and state the uses of common hand and power tools used in carpentry. 3. Select tools for a given application, and explain why their choices are appropriate. | 1. Visual demonstration — Instructor observation 2. Posters depicting tools and their uses  — checklist 3. Written rationale for tools list — rubric |

**Activities/Instruction**

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| **Show and Tell** (30 minutes)  Instructor shows students the selected hand and power tools, explaining what each is for and how it is used. Students take notes. For each tool, Instructor will ask a student if it is okay to use it incorrectly (e.g., “Can I keep cutting with a circular saw if the cord is in front of me?” “Should I use my screwdriver to gouge holes in wood?”). As students respond, Instructor prompts them to say or show the right way to use that tool.  **Show What You Know** (30 minutes)  After the demonstration, Instructor asks students to name the different functions of tools (e.g., measuring, cutting, aligning, joining). For each category, Instructor assigns a group of students to make a poster depicting, naming, and comparing all the tools that perform that function.  **Construction Planning: Tools List** (30 minutes)  Instructor distributes copies of the construction plans. During the last lesson, students used the plans to estimate the materials needed to complete the project. This time, Instructor tells students to write out lists of all the tools they will need for two carpenters to complete the project. For each tool, students are to write their reasons for choosing it over a different tool. |

**Materials**

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| For students:   * A variety of hand and power tools commonly used in carpentry * Poster board * Markers/colored pencils * Plans for a simple construction project (as used in the lesson “Building Materials, Fasteners, and Adhesives”)   For Instructor:   * [POSTER CHECKLIST] * [RATIONALE FOR TOOLS LIST RUBRIC] |