

**DESE Model Curriculum**

**GRADE LEVEL/COURSE TITLE:** Carpentry, Introductory Craft Skills –  
Module 27103-06 Hand and Power Tools

**Course Code:**

**COURSE INTRODUCTION:**

17003 Carpentry

Carpentry courses provide information related to the building of wooden structures, enabling students to gain an understanding of wood grades and construction methods and to learn skills such as laying sills and joists; erecting sills and rafters; applying sheathing, siding, and shingles; setting door jambs; and hanging doors. Carpentry courses may teach skills for rough construction, finish work, or both. Students learn to read blueprints, draft, use tools and machines properly and safely, erect buildings from construction lumber, perform finish work inside of buildings, and do limited cabinet work. Carpentry courses may also include career exploration, good work habits, and employability skills.

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<b>UNIT (#) TITLE:</b> Carpentry, Introductory Craft Skills (27103-06) – Hand and Power Tools [This module expands upon the hand and power tool information provided in the Core Curriculum and introduces the carpentry trainee to additional tools used in the carpentry trade.]	<b>SUGGESTED UNIT TIMELINE:</b> <b>CLASS PERIOD (min.):</b>
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<b>ESSENTIAL QUESTIONS:</b> 1. How can workers determine which tool is right for the job? 2. What scientific and practical principles relate to a tool’s function (e.g., lever, force, torque, etc.)?
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ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	OTHER	DOK
1. Identify the hand tools commonly used by carpenters, and describe their uses.				RST 11-12.3, L 11-12.6	27103-06	Level 1
2. Use hand tools in a safe and appropriate manner.				S-ID 9, S-IC 6	27103-06	Level 2
3. State the general safety rules for operating all power tools, regardless of type.				RST 11-12.2, SL 11-12.1.a, S-ID 9, S-IC 6	27103-06	Level 1
4. State the general rules for properly maintaining all power tools, regardless of type.				RST 11-12.2, SL 11-12.1.a, S-ID 9, S-IC 6	27103-06	Level 1
5. Identify the portable power tools commonly used by carpenters, and describe their uses.				RST 11-12.3	27103-06	Level 1
6. Use portable power tools in a safe and appropriate manner.				S-ID 9, S-IC 6	27103-06	Level 2

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**ASSESSMENT DESCRIPTIONS\*:** (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.)

**\*Attach Unit Summative Assessment, including Scoring Guides/Scoring Keys/Alignment Codes and DOK Levels for all items. Label each assessment according to the unit descriptions above (i.e., Grade Level/Course Title/Course Code, Unit #).**

<b>Obj. #</b> 1-6	<b>INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)</b> <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Indirect <input type="checkbox"/> Experiential <input type="checkbox"/> Independent Study <input type="checkbox"/> Interactive Instruction
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<b>Obj. #</b> 1-6	<b>INSTRUCTIONAL ACTIVITIES: (What Students Do)</b> 1. 2. 3.
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**UNIT RESOURCES: (include Internet addresses for linking)**

(MCCE Resource) AG DVD ROM 100  
**Basic Methods of Measuring and Cutting Shopware**  
**HAMILTON, NJ, FILMS MEDIA GROUP, 2004.**  
**DVD ROM**  
 This program reviews the English and metric measurement systems, and demonstrates how to measure and mark lumber and then cut with handsaws and portable power saws. Includes background on the careful and appropriate use of hand and power tools. 13 minutes.

(MCCE Resource) AG DVD ROM 101  
**Ripping and Crosscutting**  
**Shopware**  
**HAMILTON, NJ, FILMS MEDIA GROUP, 2004.**  
**DVD ROM**  
 This program shows students the professional way to rip and crosscut with smooth precision. Includes background on the careful and appropriate use of hand and power tools involved. 14 minutes.

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**(MCCE Resource) AG DVD ROM 102**

**Working With Nails and Screws**

**Shopware**

**HAMILTON, NJ, FILMS MEDIA GROUP, 2004.**

**DVD ROM**

This program demonstrates how to drive and remove nails and explains how to work with wood screws--from pre-drilling, to countersinking and plugging, to increasing their holding power. Includes background on the careful and appropriate use of the hand and power tools involved. 17 minutes.