

DESE Model Curriculum

GRADE LEVEL/COURSE TITLE: Carpentry, Introductory Craft Skills –
Module 00103-09 Introduction to Hand 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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UNIT (#) TITLE: Carpentry, Introductory Craft Skills (00103-09) – Introduction to Hand Tools [This module explains how to inspect and properly use hand tools. Trainees will learn how to identify and take care of basic hand tools.]				SUGGESTED UNIT TIMELINE: CLASS PERIOD (min.):		
ESSENTIAL QUESTIONS: 1. Why are hand tools useful in construction? 2. How can hand tools be properly used and maintained? 3. When is it appropriate to use hand tools over power tools?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	OTHER	DOK
1. Recognize and identify some of the basic hand tools and their proper uses in the construction trade.				SL 11-12.5, SL 11-12.1.a, RI 11-12.7, RST 11-12.2.2	00103-09	Level 1
2. Visually inspect hand tools to determine if they are safe to use.					00103-09	Level 2
3. Safely use hand tools.				RI 11-12.7, RST 11-12.2	00103-09	Level 2
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 #).						

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Obj. # 1-3	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods) <input checked="" type="checkbox"/> Direct <input type="checkbox"/> Indirect <input type="checkbox"/> Experiential <input type="checkbox"/> Independent Study <input type="checkbox"/> Interactive Instruction
Obj. # 1-3	INSTRUCTIONAL ACTIVITIES: (What Students Do) 1. 2. 3.
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. (MCCE Resource) AG DVD ROM 102 Working With Nails and Screws Shopware HAMILTON, NJ, FILMS MEDIA GROUP, 2004. DVD ROM	

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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.