

DESE Model Curriculum

GRADE LEVEL/COURSE TITLE: Carpentry, Introductory Craft Skills –
Module 27110-06 Basic Stair Layout

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 (27110-06) – Basic Stair Layout [This module introduces the carpentry trainee to the materials and methods used to construct interior and exterior wooden stairs.]		SUGGESTED UNIT TIMELINE: CLASS PERIOD (min.):				
ESSENTIAL QUESTIONS: 1. What should be considered when planning a stair layout? 2. How is a staircase most effectively constructed?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	OTHER	DOK
1. Identify the various types of stairs.				RST 11-12.3, L 11-12.6	27110-06	Level 1
2. Identify the various parts of stairs.				RST 11-12.3	27110-06	Level 1
3. Identify the materials used in the construction of stairs.				RST 11-12.3, L 11-12.6, N-Q 1, N-Q 2	27110-06	Level 1
4. Interpret construction drawings of stairs.				RST 11-12.3, G-GMD 4	27110-06	Level 2
5. Calculate the total rise, number and size of risers, and number and size of treads required for a stairway.				WHST 11-12.6, N-Q 1, N-Q 2, N-Q 3, F-IF 1, F-IF 4, F-BF 1, F-BF 3, F-LE 1, F-LE 5, G-CO 4, G-CO 5, G-CO 6, G-CO 7, G-CO 12, G-SRT 2, G-SRT 8, G-GPE 6, G-GPE 7, G-GMD 4, G-MG 1, G-MG 2, G-MG 3, A-CED 1, A-REI 1	27110-06	Level 1
6. Lay out and cut stringers, risers, and treads.				RST 11-12.3, N-Q 1, N-Q 2, N-Q 3, G-CO 12, G-GMD 4, G-MG 1, G-MG 3	27110-06	Level 2
7. Build a small stair unit with a temporary handrail.				RST 11-12.3, N-Q 1-3	27110-06	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 #).**

Obj. # 1-7	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
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Obj. # 1-7	INSTRUCTIONAL ACTIVITIES: (What Students Do) 1. 2. 3.
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UNIT RESOURCES: (include Internet addresses for linking)

(MCCE Resource) T&I DVD ROM 1.3
Jobsite Safety
Shopware
LAWRENCEVILLE, NJ, FILMS MEDIA, 2008.
DVD ROM This program illustrates the key issues residential builders and workers need to focus on in order to reduce accidents and injuries. Based on the NAHB-OSHA Jobsite Safety Handbook, the program conveys a wide range of safety information in easy-to-understand demonstrations. Topics include the use of personal protective gear, such as hard hats, gloves, and steel-toed shoes, as well as scaffolding, ladders, stairways, vehicles, mobile machinery, and other equipment. Site organization, lifting safety, electrical safety, trenching, excavation, fire prevention, basic fall protection, and hazard signage and communication are also covered. 21 minutes.