

DESE Model Curriculum

GRADE LEVEL/COURSE TITLE: Carpentry, Introductory Craft Skills –
Module 27205-07 Drywall Installation

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 (27205-07) – Drywall Installation [This module describes the various types of gypsum drywall, their uses, and the fastening devices and methods used to install them. It also contains detailed instructions for installing drywall on walls and ceilings, using nails, drywall screws, and adhesives. The module also covers fire- and sound-rated walls.]		SUGGESTED UNIT TIMELINE: CLASS PERIOD (min.):				
ESSENTIAL QUESTIONS: 1. How can different construction methods meet specific drywall requirements? 2. What factors impact the selection of drywall materials?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	OTHER	DOK
1. Identify the different types of drywall and their uses.				RST 11-12.3, F-IF 4	27205-07	Level 1
2. Select the type and thickness of drywall required for specific installations.				RST 11-12.3, F-IF 4	27205-07	Level 2
3. Select fasteners for drywall installation.				RST 11-12.3, F-IF 4	27205-07	Level 2
4. Explain the fastener schedules for different types of drywall installations.				RST 11-12.3, F-IF 4	27205-07	Level 2
5. Perform single-layer and multi-layer drywall installations using different types of fastening systems, including nails, drywall screws, adhesives.					27205-07	Level 2
6. Install gypsum drywall on steel studs.				RST 11-12.3	27205-07	Level 2
7. Explain how soundproofing is achieved in drywall installations.				RST 11-12.3	27205-07	Level 2
8. Estimate material quantities for a drywall installation.				RST 11-12.3, N-Q 1, N-Q 2, N-Q 3, G-GMD 4, G-MG 1, G-MG 2, G-MG 3	27205-07	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. # 1-8	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. # 1-8	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 10
Building Construction: Fundamentals
CEV Multimedia
LUBBOCK, TX, CEV MULTIMEDIA, 2003.
DVD ROM This presentation includes how to layout plates, make corners and tees, construct wall units, partitions, window and door units and headers. Step-by-step instructions are provided for cutting ceiling joists and rafters with demonstrations on proper techniques for some of the more exacting procedures (“lipping” a joist, cutting a “birdsmouth,” marking a ridgeboard and assembling the rafters) necessary for beginning builders. During completion of the 16’ X 10’ portable building, you will learn proper techniques for laying a roof with discussions and demonstrations of the following roof construction steps: laying the roof deck, attaching metal flashing along the edges, rolling out and laying the roofing felt, marking the felt to prepare it for the asbestos shingles, and cutting a nailing composition shingles in an effective method and pattern. 160 min, 4 sections, 1 printable resource and 17 Web resources.

(MCCE Resource) TE DVD ROM 11

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Course Code:

Deconstruction: The Science of Building a House-Plumbing to Paint

Discovery Channel University

LAWRENCEVILLE, NJ, SHOPWARE, 2004.

DVD ROM

A home is more than a house; technologically speaking, it's an engineered habitat. This video explains how electrical, plumbing, and HVAC systems work with selected parts of the building envelope — building wrap, windows, fiberglass insulation, gypsum wallboard, and paint — to keep the weather out and comfort in. Animated diagrams, microscopic and thermal imaging, on-site demonstrations, and off-site tests are used to show how things like circuit breakers and P-traps work; to define U-factor, R-value, permeance, and other technical terms and concepts; to demonstrate color-matching and paint-making; and to isolate envelope failures leading to moisture infiltration and mold. A visit to a USG wallboard plant is also included. 50 minutes.