GRADE LEVEL/COURSE TITLE: Carpentry, Introductory Craft Skills -

Course Code:

Module 00106-09 Basic Rigging

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.

DESE Model Curriculum

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UNIT (#) TITLE: Carpentry, Introductory Craft Skills (00106-09) – Basic Rigging [This module introduces the uses of slings and common rigging hardware. Trainees will learn basic inspection techniques, hitch configurations, and load-handling safety practices as well as how to use American National Standards Institute hand signals.]	SUGGESTED UNIT TIMELINE: CLASS PERIOD (min.):
ESSENTIAL QUESTIONS:1. How is communication used to ensure safety in load-handling situations?2. Which rigging techniques are most useful in which situations?	

ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
	()	GLEs/CLEs	PS	CCSS	OTHER	DOK
1. Identify and describe the use of slings and common rigging hardware.				RST 11-12.2	00106-09	Level 1
2. Describe basic inspection techniques and rejection criteria used for slings and hardware.				SL 11-12.1.a, S-ID 9, S-IC 6, S-MD 7	00106-09	Level 1
3. Describe basic hitch configurations and their proper connections.				SL 11-12.1.a	00106-09	Level 1
4. Describe basic load-handling safety practices.				SL 11-12.1.a, S-ID 9, S-IC 6, S-MD 7	00106-09	Level 1
5. Demonstrate proper use of American National Standards Institute (ANSI) hand signals.				SL 11-12.1.a	00106-09	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. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)						
1-5	X Direct						
	Indirect						
	Experiential						
	Independent Study						
	Interactive Instruction						
Obj. #	# INSTRUCTIONAL ACTIVITIES: (What Students Do)						
1-5	1.						
	2.						
	3.						
UNIT F	RESOURCES: (include Internet addresses for linking)						
(MCCE	E Resource) T&I DVD ROM 10						
	g Construction: FundamentalsCEV Multimedia						
	OCK, 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						
	ne 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.						
sections	sections, 1 printable resource and 17 web resources.						
(MCCE	E Resource) TE DVD ROM 10						
Deconstruction: The Science of Building a House-Foundation to Roof							
	ery Channel University						
LAWRENCEVILLE, NJ, SHOPWARE, 2004.							
DVD ROM							
	This video highlights scientific aspects of concrete, steel, wood, and nails?and the forces that impact them. Experiments done on the building site						
	and at materials testing labs investigate the strengths of concrete, rebar, and engineered lumber; the chemical properties of Portland cement and						
	lvanized nails; and the effects of dead load and live load, torque and shear induced by wind and earthquakes, and Bernoulli's Principle as it						
	elates to the effects of tornadoes on roofs. Microscope and infrared imaging plus animations give extra angles of insight. So do field trips to a						
concrete	concrete batch plant, a tree farm to study sylviculture, and a saw mill to see how computerized cutting and sorting are done. 50 minutes.						

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(MCCE Resource) T&I DVD ROM 1.2

Safety Doesn't Happen By Chance Meridian Education Corporation

PRINCETON, NJ, MERIDIAN EDUCATION CORPORATION, 2001.

DVD ROM This program provides a guide to basic construction safety concerns and practices. Topics include: Personal protective equipment, including hardhats, protective glasses and goggles, clothing, and boots; Tool safety rules and tips; Electrical safety practices, including use of ground-fault circuit interruptors (GFCIs); Hazard communication, such as material safety data sheets (MSDS); Ladder and scaffold safety. A summary of the main points concludes the program. 12 minutes.

(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.

Course Code: