

DESE Model Curriculum

GRADE LEVEL/UNIT TITLE: 11-12/Finishing

Course Code:

COURSE INTRODUCTION:

This course utilizes welding in the development and construction of major metal and wood projects. (CD 016770, CIP 01.0201)

Agriculture encompasses the food, fiber, conservation and natural resource systems, employing over 20% of the nation's workforce. Advanced skills in welding, woodworking, and project construction provide students with entry-level agricultural construction skills.

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UNIT DESCRIPTION: Students learn proper procedures for finishing a project. Students safely finish a project.		SUGGESTED UNIT TIMELINE: 1 WEEK CLASS PERIOD (min.): 50 MINUTES				
ESSENTIAL QUESTIONS: 1. What are the proper procedures for finishing a project and why is this important? 2. What are the safety procedures and how do you apply these?						
ESSENTIAL MEASURABLE LEARNING OBJECTIVES	CCSS LEARNING GOALS (Anchor Standards/Clusters)	CROSSWALK TO STANDARDS				
		GLEs/CLEs	PS	CCSS	AFNR Standards	DOK
1. Prepare surfaces for finishing				N-Q-1 N-Q-3 RST11-12.3 RST11-12.4 L11-12.6	CS.01.01 CS.07.01 CS.08.01 CS.08.02 CS.08.03 PST.03.03 PST.04.04.03.a	2
2. Select the primer to use before painting the surface				N-Q-1 N-Q-3 RST11-12.3 RST11-12.4 L11-12.6	CS.08.01 CS.08.02 CS.08.03 PST.03.03 PST.04.04.03.a	2

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3. Select the paint to use in the finishing operation				N-Q-1 N-Q-3 RST11-12.3 RST11-12.4 L11-12.6	CS.08.01 CS.08.02 CS.08.03 PST.03.03 PST.04.04.03.a	2
4. List the steps for cleanup after finishing operation is complete				RST 11-12.3 RST 11-12.4 L11-12.6 WHST11-12.2	CS.07.01 CS.08.01 CS.08.02 CS.08.03 PST.03.03	1
5. Apply principles of painting by preparing, priming, and finishing a project.				N-Q-1 N-Q-3 RST 1-12.3 RST11-12.4 RST11-12.9 L11-12.6	CS.01.01 CS.07.01 CS.08.01 CS.08.02 CS.08.03 PST.03.03 PST.04.04.03.a PST.04.04.03.b	4
ASSESSMENT DESCRIPTIONS*: (Write a brief overview here. Identify Formative/Summative. Actual assessments will be accessed by a link to PDF file or Word doc.) Students will use equipment and materials discussed in class, such as sandpaper, brushes, and rollers, to prepare the surface of a project, prime the project, and paint it. Acceptable projects would include those made for the Agricultural Construction class or outside projects that the instructor determines are appropriate for the curriculum. Assessment will be based on the overall quality of the work and the ability to safely and correctly complete the project within the available time. *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. #	INSTRUCTIONAL STRATEGIES (research-based): (Teacher Methods)					
1-5	1. Lecture and demonstration					
Obj. #	INSTRUCTIONAL ACTIVITIES: (What Students Do)					

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1-5	1. Students will engage in study questions in lessons 1 through 4.
1-5	2. Additional activities that relate to the unit objective can be found under the heading “Other Activities” in the following locations: p. V-5 (1, 4), p. V-15 (1), and p. V-27 (1).
UNIT RESOURCES: (include internet addresses for linking) <ul style="list-style-type: none">• <i>Agricultural Construction Volume II</i>. University of Missouri-Columbia, Instructional Materials Laboratory, 1989.• <i>Healthy Indoor Painting Practices</i>. U. S. Consumer Product Safety Commission. Accessed January 17, 2012, from http://www.cpsc.gov/cpscpub/pubs/456.pdf.• <i>Safe Use, Storage and Disposal of Paint</i>. Household Hazardous Waste Project. MU Extension. University of Missouri-Columbia. Accessed January 17, 2012, from http://muextension.missouri.edu/explore/wasteman/wm6001.htm.	