

DESE Model Curriculum

GRADE LEVEL/COURSE TITLE:

Agricultural Construction (Volume II), Unit II – OxyGas and Other Cutting/Welding Processes

Course Code:

Agricultural Construction

Unit II — Oxy-Gas and Other Cutting/Welding Processes

Student Handout

Section I: Welding and Cutting

Directions:

1. The instructor will give you a series of welding and cutting procedures to perform.
2. Perform the assigned welds and cuts.
 - Wear appropriate safety equipment at all times.
 - Follow all assigned safety procedures. You can lose points for not following safety precautions and other assigned procedures.
 - Inspect the equipment, materials, and work area to ensure safe and correct operation.
 - Perform the welds and cuts using the assigned procedure.
 - Inspect your work.
 - Follow shutdown and cleanup procedures, and return all equipment and materials to their assigned places.
 - Turn in your work to the instructor.
3. Complete sections II and III of the activity, and turn your completed handout in to the instructor.
4. Your final assessment score will be based on your ability to safely and correctly perform the assigned procedures and on the accuracy of your responses to the identification and written assessment portions of the activity.

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Section II: Identification

Directions:

Go to the identification station. Write the names of the tagged parts or items in the spaces below. Be sure to write each name next to its correct tag letter.

- | | |
|----|----|
| A. | F. |
| B. | G. |
| C. | H. |
| D. | I. |
| E. | J. |

Section III: Written Assessment

Circle the letter that corresponds to the correct answer.

1. Open the acetylene tank valve _____ so it can be shut off quickly.
 - a. 1 full turn
 - b. 3/4 turn
 - c. 1/2 turn
 - d. All the way
2. Which of the following should be used to properly light the torch?
 - a. Match
 - b. Spark lighter
 - c. Cigarette lighter
 - d. Another lit torch
3. To weld a butt joint in the horizontal position with an oxyacetylene outfit, which choice is the correct work angle and travel angle?
 - a. 5- to 10-degree work angle and a 5- to 10-degree travel angle
 - b. 15-degree work angle and a 20-degree travel angle
 - c. 5-degree work angle and a 15-degree travel angle
 - d. 10-degree work angle and a 20-degree travel angle

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Complete the following short-answer questions.

4. List four ways to avoid burns when using oxyacetylene equipment. (Each answer is worth 1 point for a maximum value of 4 points.)
 - a.
 - b.
 - c.
 - d.
5. List three methods to identify torch tips. (Each answer is worth 1 point for a maximum value of 3 points.)
 - a.
 - b.
 - c.