



2008 State Competition
FFA Agricultural Mechanics Contest
University of Missouri

Contestant # _____
Contestant Name _____
Chapter _____

Oxy-Acetylene

50 points

Directions: Please circle the appropriate answer or fill in the blank for each question. When you are finished please turn your sheet in. Remember to put your name, contestant number and chapter on your paper. Not doing so will result in a zero for this section. If you have questions please feel free to ask.

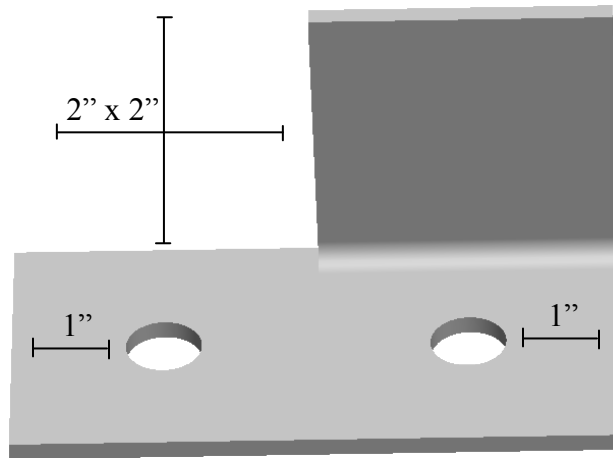
*** Up to 5 safety points will be deducted from your final score if necessary. Please wear your safety glasses and practice safe methods while competing in this activity.**

2 Points Each

Directions: Correctly identify each part and write the correct name in the space provided.

1. The part labeled # 1 is a/an _____
2. The part labeled # 2 is a/an _____
3. The part labeled # 3 is a/an _____
4. See materials labeled #4. Which is the minimum lens that would be appropriate for cutting the steel provided with an oxygen/ acetylene torch?
5. When combined with pure oxygen, which of the items labeled 5a, 5b, 5c, or 5d can ignite and burn violently?
6. The tank labeled #6 becomes unstable when compressed in its gaseous state above _____ psi.
 - a. 5
 - b. 10
 - c. 15
 - d. 20
 - e. Does not apply

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Problem: This activity will require you to make the necessary cuts in a piece of 2"x 2"x 4" long angle iron that will be used as a toolbox mount. Cuts required will be two 1/2" holes 1" from each edge for mounting bolts. The other cut will be to remove 2" square from the other edge to fit the toolbox.

Materials:

1. 2" x 2" x 4" long angle iron, 1/8" thick
2. Cutting attachment
3. Striker
4. Wire brush
5. Chipping hammer
6. Soapstone

Directions:

1. Secure metal from contest official.
2. Mark cutting locations with soapstone.
3. Cut holes for 1/2" bolts.
4. Cut 2" square off of the opposite side.
5. Cool metal thoroughly.
6. Clean cuts with hammer and wire brush.
7. Label metal using the label provided and the soapstone then submit.

Note: Do NOT adjust the regulators.

Evaluation Criteria	Points Possible	Points Earned
1. Holes Positioned Properly	5	_____
2. Holes Fits 1/2" bolt	5	_____
3. Proper notch is cut	5	_____
4. Use of correct flame	5	_____
5. Uniformity/presentation	5	_____
6. Safety, work habits	5	_____
7. Points from questions	20	_____
Total Points	50	_____