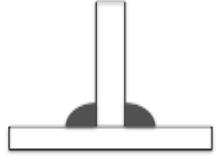


Name \_\_\_\_\_ School \_\_\_\_\_ Contestant Number \_\_\_\_\_

**2016 Cowboy Classic  
Agricultural Technology and Mechanical Systems  
Materials and Handling Systems  
Structural Systems–Welding Skill**

You are applying for a welder position at a local equipment repair shop. Your potential employer wants to test you on your general welding ability and knowledge. To test that knowledge, the employer has given you a quiz, which can be seen below. Please label the parts of the welder and answer the questions to the best of your ability. To test your welding skills, you will need to complete two welds. **Using the supplies provided weld two fillet welds, one on each side of the “T” using a E7018 1/8” x 14” rod.**

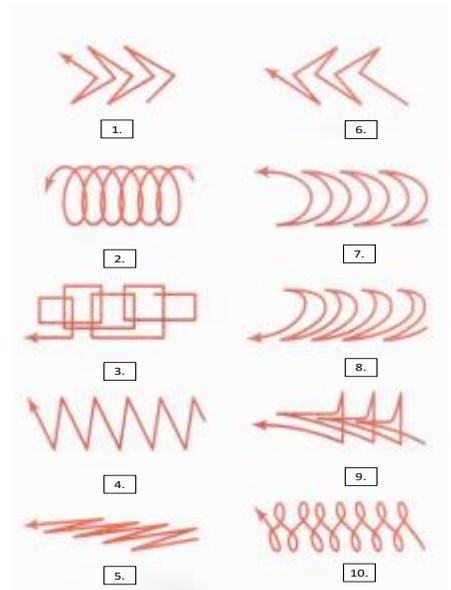


**Answer the following questions:**

- List the ideal amperage range for this rod in each of these applications. (1 point)
  - AC 105-150 Amps
  - DCEP 100-140 Amp
- What purpose does slag serve in the shielded metal gas welding process? (0.5 points) **Protects the weld from contamination as it hardens.**
- What is the ideal lens shade used in a welding hood when ARC welding? (0.5 points)
  - 15
  - 3
  - 8
  - 10**

**Label the parts missing on the following diagram: (1 point each)**

1. <b>C</b>	6. <b>D</b>
2. <b>H</b>	7. <b>A</b>
3. <b>J</b>	8. <b>L</b>
4. <b>E</b>	9. <b>I</b>
5. <b>K</b>	10. <b>B</b>
A) “Crescent” B) “Figure 8” C) “V” D) “Upside down V” E) “Zigzag”	H) “Circular” I) “T” J) “Square” K) “Straight Stepped” L) “J”



The Cowboy Classic Welding Event is proudly sponsored by U.S. Welding and Lincoln Electric.

Criterion	Points Possible	Points Earned
Welding Skill	15	
Questions	12	
Safety	3	