Assessment

ARC WELDING
SAFETY & TECHNIQUE

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1. Which of these is not an example of an Arc welding joints?

   a) Fillet weld
   b) Lap joint
   c) Inclusion
   d) Single v butt

2. Which of these is an important piece of Arc welding personal protective equipment?

   a) Face shield
   b) Leather gloves
   c) Apron
   d) All of the above

3. Light rays emitted from an electric arc are of two types. They are:

   a) Infrared and ultraviolet
   b) Infrared and laser
   c) Ultraviolet and microwave
   d) Ultraviolet and laser
4. **Welding in excessively hot environments can lead to fainting, exhaustion and heat ____________**
   
   a) Waves  
   b) Stress  
   c) Reduction  
   d) None of the above

5. **What are the two components that make up an electrode?**
   
   a) Alloy and flux  
   b) Core metal and flux  
   c) Core metal and alloy  
   d) The clamp and flux

6. **What is the name of the flux residue that coats the metal weld whilst cooling?**
   
   a) Liquid metal  
   b) Dust  
   c) Swarf  
   d) Slag

7. **When is it acceptable to establish an Arc without a shield or welding helmet?**
   
   a) Never  
   b) Whenever you feel it’s safe  
   c) Only when you can’t see the work properly  
   d) Only if the electrode is brand new

8. **What is one of the most common and serious risks to the eyes of a welder?**
   
   a) There are no risks to the eyes  
   b) Arc flash or arc eye  
   c) Tiredness  
   d) Blinking

9. **Can less PPE be worn while welding in summer conditions?**
   
   a) Yes  
   b) No  
   c) It is up to your supervisor  
   d) It depends on the temperature
10. What should you use if you're welding in an environment that is not well ventilated?

a) Water  
b) A different welding type  
c) A short welding schedule  
d) A fume extractor and/or a respirator