

Employ the components of a combination square set											
Use layout and marking tools as required											
Determine wire feed speed											
<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
Points earned											
Total possible points (7)											

III. Read and interpret blueprints with a test score of at least 75 percent.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Apply information found in the information block of the drawing										
Identify the basic views used in blueprints including assembly, detail and fit-up drawings										
Identify common types of lines, abbreviations and symbols in accordance with national drawing standards (ANSI)										
Identify basic welding symbols and components of a symbol (such as arrow, reference line, tail, size or length) in accordance with the current national welding symbol standard AWS A 2.4, current edition										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (6)										

IV. Produce welds using a Shielded Metal Arc Welding (SMAW) process to AWS QC10 standards.

Tasks Instructions:

Demonstrate safety procedures for GTAW											
Demonstrate ability to correctly set up GTAW power sources, related welding equipment and do basic process and equipment troubleshooting for regular and pulsed welding of aluminum, stainless steel and/or carbon steel											
Select the correct type of tungsten and/or filler metal based on aluminum, stainless steel or carbon steel sheet and/or plate (1/16" to 1/4" thickness)											
Prepare aluminum, stainless steel and/or carbon steel for welding											
<i>Safety and infection control are adhered to during all aspects of this task.</i>											
<i>The student completed task within the time limited.</i>											
Points earned											
Total possible points (6)											

VIII. Produce cut materials using an Oxygen Fuel Cutting (OFC) process to AWS QC10 standards.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Demonstrate safety procedures for OFC										
Demonstrate ability to correctly set up the OFC equipment for cutting and do basic process troubleshooting										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (4)										

IX. Produce cut materials using a Plasma Arc Cutting (PAC) process to AWS QC10 standards.

Tasks Instructions:

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	1	2	3	4	5	6	7	8	9	10
Demonstrate safety procedures for PAC										
Demonstrate ability to correctly set up the PAC power sources, related cutting equipment and do basic process and equipment troubleshooting										
Set up and shut down equipment for cutting carbon steel, stainless steel and/or aluminum										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (5)										

X. Demonstrate knowledge of visual inspection with a test score of at least 75 percent.

Tasks Instructions:

	1	2	3	4	5	6	7	8	9	10
Examine and measure undercut										
Examine and measure porosity										
Measure fillet size										
Examine and measure weld reinforcement										
Determine acceptability of welded samples in accordance with provided acceptance criteria										
<i>Safety and infection control are adhered to during all aspects of this task.</i>										
<i>The student completed task within the time limited.</i>										
Points earned										
Total possible points (7)										

XI. Demonstrate knowledge of welding positions and terminology.

