

3. Demonstrate GMAW-pulse concepts and techniques in creating quality weldments on ferrous and non-ferrous material.

Learning Objectives

Use the proper angle of the gun to the joint and direction of gun travel for the type of weld being made in the flat, horizontal, vertical, and overhead positions.

Apply GMAW - Pulse and adjust arc length settings for the position and material being welded.

Perform proper weld sequencing to produce an acceptable visual weld.

4. Demonstrate FCAW process on carbon steel and stainless steel.

Learning Objectives

Demonstrate how to use the FCAW GS (Gas Shielded) and FCAW SS (self shielded) process in various positions.

Demonstrate how to select the machine settings and gas for the carbon steel and stainless steel using the FCAW process.

5. Produce D1.1 practice test for GMAW pulse and FCAW

Learning Objectives

Create quality weld test with the pulse mode on carbon steel, stainless steel, and aluminum.

Identify any causes of various welding defects; make necessary adjustments.

6. Prepare for American Welding Society D 1.1 certification test.

Learning Objectives

Practice all types of positions necessary to pass AWS D 1.1 pulse 1G, 2G, 3G, 4G, on carbon steel, stainless steel, and aluminum.

Construct final weld coupon for D1.1 bend testing.

SCC Accessibility Statement

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