



PROGRAM OUTLINE

WELDER LEVEL 3

Welder-Level 3

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Shielded Metal Arc Welding (SMAW)

Select Electrodes for SMAW

Use the SMAW Process on Low Carbon Steel Plate and Pipe

Semi-Automatic and Automatic Welding

Use the GMAW and GMAW-P Process

Use Combined GMAW, MCAW and FCAW Processes

Gas Tungsten Arc Welding (GTAW)

Use the GTAW Process for Ferrous Metals

Use the GTAW Process for Aluminum

Basic Metallurgy

Describe Mechanical and Physical Properties of Ferrous and Non-Ferrous Metals

Describe Common Ferrous, Non-Ferrous and Reactive Metals and their Weldability

Describe the Grain Structure of Metals

Describe Aluminum, Aluminum Alloys and their Weldability

Welding Drawings, Layout and Fabrication

Read and Interpret Drawings

Interpret and Apply Mechanical Drawings and Layout Components

Fabricate Weldments

Costing and Estimating

Quality Control and Inspection

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Describe Basic Welding Quality Control and Inspection Requirements

Describe Inspection and Testing Procedures

Describes the Scope of the Welding Supervisor and Inspector Responsibilities

Standards, Codes, Specifications and Welder Qualification

Identify Applicable Standards, Codes, Specifications and Jurisdictional Bodies

Describe Compliance with Weld Procedure Specifications (WPS) and Data Sheets

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