



PROGRAM OUTLINE

WELDER LEVEL A

Revised: Oct 3, 2017
Author: A.D. Al Phillips
Editor: Lucky Toor

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2017.docx August 22, 2019





Welder Level A

Perform Shielded Metal Arc Welding (SMAW)

Use the SMAW Process to Weld Groove Welds Using Low-Alloy Filler Metal on Low Carbon Steel Plate

Describe and Demonstrate Use of SMAW Stainless Steel Filler Metal on Low Carbon Steel Plate

Use the SMAW/GTAW Process to Weld Groove Welds Using Low-Alloy Filler Metal on Low Carbon Steel Pipe

Use the SMAW/GTAW Process to Weld Groove Welds Using Stainless Steel Filler Metal on Low Carbon Steel Pipe

Describe Basic Metallurgy Relating to Production, Properties and Weldability

Describe the Grain Structure of Metals

Describe Common Non-Ferrous Metals and their Weldability

Describe Reactive Metals and their Weldability

Describe Die Castings and their Weldability

Perform Gas Tungsten Arc Welding (GTAW)

Use the GTAW Process to Groove Weld Using Low Carbon Steel Filler Metal on Low Carbon Steel Pipe

Use the GTAW Process to Groove Weld Using Stainless Steel Filler Metal on Low Carbon Steel Pipe

Use the GTAW Process to Groove Weld Using Stainless Filler Metal on Thin Wall Stainless Steel Pipe

Use the GTAW process to Weld Stainless Steel Sanitary Tubing

Use the GTAW Process to Weld Groove Welds on Aluminum Pipe

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 PIPING INDUSTRY
COLLEGE of B.C.

Read and Utilize Industry Drawings

Develop Detail Drawings on Transition Pieces
Interpret Detail Drawings of a Rolling Offset
Develop Piping School Drawings from Single Lane Isometric Drawings
Estimate Job Materials and Labor Costs for Projects

Layout and Fabricate Components

Interpret and Apply Mechanical Drawings
Identify Materials and Information Required
Layout Materials
Prepare Materials
Fabricate Shop Projects



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