

APPENDIX A

PROGRAM OUTLINE

WELDING LEVEL A

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Welding Level A

Admission Requirements:

Grade 10 or equivalent including English 10, Math 10, And Science 10. Grade 12 preferred.

Shielded Metal Arc Welding (SMAW)

- Select electrodes for SMAW
- Use the SMAW process on low carbon steel plate and pipe
- Use the SMAW process on stainless steel and/or low carbon steel plate and pipe

Gas Tungsten Arc Welding (GTAW)

- Use the GTAW process for stainless steel

Basic Metallurgy

- Describe mechanical and physical properties of ferrous and non-ferrous metals
- Describe die casting and their weldability

Welding Drawings, Layout and Fabrication

- Interpret and apply mechanical drawings and layouts components
- Fabricate weldments