

Corporate Office

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Welding

Course Description: This course provides an overview of basic TIG and MIG welding techniques. Safety is stressed throughout and proper use of safety equipment will be enforced. Part of this course will be dedicated to the classroom and the remaining time will be spent doing hands-on in the welding shop. For the hands-on portion, the objective is to give the class participants approximately 10-12 practice pieces per job (standoffs welds, angle iron welds, steel pipe welds etc.) Students will need to have PPE available to use during the labs.

Prerequisites: Basic welding experience

Textbook: Handouts

Learning Objectives:

- Identify safety issues
- Prepare TIG and MIG equipment setup
- Explain TIG and MIG electrode selection
- Explain MIG shielding gas selection
- Explain TIG filler metal selection
- Fabricate welds for various jobs
- Troubleshoot welding problems
- Discuss weld quality