

Tool Die and Welding Course

Description

This course is designed to teach the skills necessary to identify and select the correct weld process to make maintenance repairs in a variety of

tool steel materials. Multi processes will be taught if used and available at your facility. Course can be easily customized to your facility.

Outline

- Silver Brazing Process Overview
- Arc Welding Process Basics
- GMAW Process Basics
- GTAW Process Basics
- Welding and Cutting Safety
- Identifying Base Metals
- Practical Tool Steel Metallurgy
- Welding Tool Steel
- Tool Welding Practice Exercises (Hands on Lab Exercises)

Prerequisites

Participants should have taken the courses Basic or Advanced Arc Welding or have prior experience of that level.

Performance Objectives

At the completion of this course the participant will be able to:

- Identify basic metal types and choose electrodes and welding processes to make tool and die welds on a variety of materials.
- If non ferrous metals are to be used, students will be able to make repairs to these metals in the flat and horizontal positions.

Course Length

40 or 80 hours/Up to 12 participants.