



PROGRAM OUTCOMES:

The program focuses on the major welding and cutting processes which includes Shielded Metal Arc Welding, Gas Metal Arc Welding, and Flux Cored Arc Welding. The program also addresses safety, print reading, and math.

PROGRAM LENGTH:

520 hours of related instruction &
Approximately 2-3 years of on-the-job learning

CERTIFICATION:

Welding Certificate
OSHA Certificate

ON-THE-JOB LEARNING COMPETENCIES:

Measure dimensions of completed products or workpieces to verify conformance to specifications

Select production equipment according to product specifications

Determine metal or plastic production methods

Operate grinding equipment

Heat material or workpieces to prepare for or complete production

Reshape metal workpieces to established specifications

CLASSROOM INSTRUCTION:

WELD 1030 Shielded Metal Arc Welding Basic Theory
WELD 1035 Shielded Metal Arc Welding Lab
WELD 1040 Gas Metal and Flux Cored Arc Welding Theory
WELD 1045 Gas Metal and Flux Cored Arc Welding Lab
WELD 1110 Introduction to Metallurgy
WELD 1140 Print Reading & Symbols
WELD 1155 Fabrication Equipment and Operation Lab
MATH 1020 Technical Mathematics I
OSHA 10

JOB FUNCTIONS:

Weld components in flat, vertical, or overhead positions

Operate safety equipment and use safe work habits

Examine workpieces for defects and measure workpieces with straightedges or templates to ensure conformance with specifications

Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment

Weld separately or in combination, using aluminum, stainless steel, cast iron, and other alloys

SKILLS:

Attention to Detail, Critical Thinking

