



INTRODUCTION TO **WELDING/** **METAL FABRICATION**



Forge a **bright** future!

Welders join, fabricate and repair the metal parts of automobiles, buildings, ships, railway cars and aircraft. They are employed in machine shops, construction companies and automotive dealerships. If you enjoy challenging work, have good manual skills and take pride in what you produce, a career as a welder may be for you.

COURSE TITLE: INTRODUCTION TO WELDING/METAL FABRICATION**COURSE DESCRIPTION**

Introduction to Welding/Metal Fabrication is designed to provide the student with the basic entry-level knowledge and job skills required in the welding and machine trades. The course teaches safe welding and cutting of a wide range of metals (ferrous and non-ferrous) using the four most widely used welding practices in the industry: Manual ARC welding, MIG and TIG welding, and oxy acetylene welding. The course will also introduce students to all appropriate safety procedures of the trade. Students may be eligible to take the 3g and 4g qualification tests that meet AWS D1.1 standards.

COURSE CONTENT

Shielded Metal Arc Welding and Safety
TIG and MIG Welding and Safety
Oxy acetylene Cutting and Safety
Welded Joint Design and Testing
Ferrous and Non-Ferrous Metal Alloys and Properties
Basic Metal Layout and Measurement
Gas Welding Practices and Safety

CAREER OPPORTUNITIES

Welder/Fabricator
Welder's Apprentice
Welding Machine Operator
Welder-Gas, Electric Arc, MIG-TIG, Flame Cutter
Boilermaker
Steamfitter
Ironworker
Railroad Welder/Machinist

LOCATION

Islip Career Center

Quote from program graduate –

*"It helped me grow, not just vocationally,
but academically as well."*

Manufacturing Technology

- Welding/Metal Fabrication (MTC)
- Computer Science and App Development (BTC)
- Computer Technology and Repair (BTC)
- Introduction to Welding (ICC)

