

WELDING/METAL FABRICATION



Find your bright spot in heavy metal!

equipment, machinery, and architectural and structural metals. Welders can also be found in automotive restoration and in custom motorcycle work. Experienced welders can advance to positions as technicians, supervisors, inspectors and instructors, or may open their own repair shops. Others, especially those who obtain a bachelor's degree, may become welding engineers. Employment prospects are bright! Here's your opportunity to obtain the entry-level skills you need to begin a career in welding.

Advanced college/trade school credit is available to qualifying students from the following institutions:















COURSE TITLE: WELDING/METAL FABRICATION

COURSE DESCRIPTION

Entry level skills in electric ARC, TIG, MIG and Plasma ARC welding techniques are introduced. These techniques are developed in areas from heavy ferrous material to highly specialized light metals common to Long Island industry. Welding, according to specifications and blueprints, is emphasized.

COURSE CONTENT

Aircraft and Industrial Welding

MIG and TIG (Heli-ARC) Theory and Practice Thin Gauge Metal, Aircraft and Sheet Metal Fabrication Brazing Light-Gauge Sheet Metal **Sheet Metal Fabrication** Blueprint Reading, Layout and Measurement Plasma Arc Cutting and Resistance Spot-Welding

ARC Welding in Sheet and Plate Fabrication Structural Steel and Construction Welding

Oxyacetylene Welding and Brazing (Maintenance Welding Techniques)

Shielded Metal ARC Welding (Stick Electrode) using AC and DC Welding Machines (Construction Welding, Equipment Repair)

Pipe Welding

MIG and TIG Welding (Heavy-Gauge Steel Construction Application)

Manual and Semi-Automatic Flame Cutting

Layout Work and Welding to Measurement, Job Design

Plasma Cutting Techniques

EDUCATIONAL OPPORTUNITIES

Advanced College Standing Associate Degree Trade Schools

CAREER OPPORTUNITIES

Machine Building Aircraft Welder Construction Welder Pipeline Welder Ship Building

Heavy Equipment Repair

Railroad and Transportation Precision and Commercial Sheet Metal Welding Technician

Welding Inspector Welding Proprietor

Quote from program graduate -

"Very engaging and educational. Gives me the experience I expect to see in the trade field I am studying."

SUGGESTED SUPPORTIVE COURSES

Algebra, Mechanical Drawing, Metal Shop

ADDITIONAL INFORMATION

COSTS	. Approved footwear and clothing approximately \$300
LENGTH OF COURSE	
LOCATION	. Edward J. Milliken Technical Center
CTE/ACADEMIC CREDIT	. Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	. OSHA-10, OSHA-30 (optional)



