



CLASSES DESIGNED WITH THE ADULT STUDENT IN MIND.

We, the adult education staff, strive to work as an effective team. We are an integral part of education that links business/industry and agencies within our community.



Welding, Fabrication & Allied Processes

March 30, 2015 through June 30, 2015



**400
Hour
Program**

Welding is a career that offers more choices of industries to work in and advancement opportunities than just about any other career choice. Welders are needed in almost every industry and those who want to advance their career have the ability to do so with additional training. A few examples of the fields in which Welders can find career opportunities: Inspection, Engineering, Robotics Education, Project Management and Sales.

EQUAL EDUCATION OPPORTUNITY

It is the policy of Tri-Rivers Center for Adult Education that educational programs and activities are provided without regard to race, color, national origin, gender, disability, or age.



2222 Marion-Mt. Gilead Rd.
Marion, OH 43302
740-389-4681 ph
www.tririvers.com
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***Training leading to
nationally recognized
certifications.***

Welding, Fabrication & Allied Processes

400 HOUR COURSE • PREREQUISITES: HIGH SCHOOL DIPLOMA OR GED

March 30, 2015 through June 30, 2015

For details call
INSTRUCTOR:

Levi Retterer

lretterer@tririvers.com

740-389-8588

or

OhioMeansJobsMarion

740-386-1080

Welding is one of the few career choices that is in high demand at all times. Since welders are needed in almost every industry, it gives them the flexibility to switch industries without changing careers. Let's face the facts; most career choices have ups and downs. Welding on the other hand has endless opportunities that keep fueling the demand.

flexible solutions for your career needs

COURSE OVERVIEW

This program is designed to develop the skills necessary for performing work in the field of welding and fabrication. Instruction will begin with a strong emphasis on safety and will address the many precautions that need to be taken to insure the safe operations of welding and fabrication equipment, as well as general industrial safety. The tools, applied math, layout, print reading, and measuring are explained as well as hands on fabrication. Processes covered are sawing, shearing, and punching of structural steel. Next, instruction will be provided in SMAW (Shielded Metal Arc Welding), GMAW (Gas Metal Arc Welding), FCAW (Flux Cored Arc

Welding), GTAW (Gas Tungsten Arc Welding) and thermal cutting techniques. Eligible students may elect to test under AWS QC 10 certification guidelines in the 3G and 4G positions pertaining to the AWS D1.1 Structural Code. Also covered will be Oxy Acetylene Cutting and Welding, Plasma Arc Cutting and Carbon Arc Cutting. This training serves as a progressive introduction to the technical skills and practices to prepare students for employment as flame cutters, structural welders, tack welders, welder assemblers, welder helpers, arc cutters and production line welders.

COURSE OUTCOMES

The student will obtain entry level skills and understanding of virtually all the welding and cutting processes used in production and repair today. The student will have the theory, fundamentals of operation, equipment used and techniques recommended for all of the welding, cutting and fabrication processes that are commercially used. The student will have the opportunity of becoming certified under the welding code D1.1 in the processes covered by this class.

COURSE OBJECTIVES

- General and Industry Specific Safety (Welding and Allied Equipment)
- Oxy Fuel, Arc and Inert Gas Theory
- Blueprint Reading, Weld Symbols and Applied Math
- Measuring and Layout
- Use of Hand Tools
- Use of Powered Fabrication Equipment
- Oxy Fuel Cutting and Gouging
- Plasma Arc Cutting
- Shielded Metal Arc Welding
- Gas Metal Arc Welding
- Gas Tungsten Arc Welding
- Flux Core Arc Welding
- 3G and 4G D1.1 Structural Weld Test, SMAW and FCAW 1"
- OSHA Safety Certifications

**OPTIONAL FANUC ROBOTICS CLASS
OFFERED. ASK FOR DETAILS!!**



OUR MISSION

We provide lifelong, continuous learning for a diverse adult population enabling students to overcome barriers and enhance the quality of life for themselves and their families. We utilize practical skills with an eye toward technological advancement.

