

## **WELDING PROGRAM OUTCOMES**

Employers will expect you, as a Welding Graduate, to be able to:

- Demonstrate appropriate safe work habits when operating oxyfuel and electric welding equipment and function safely in an welding environment
- Successfully complete projects in a given time period.
- Perform welding operations with appropriate process on various metals and situations
- Perform metal layout processes
- Display manipulative skills with various welding processes to assure adequate weld integrity and appearance
- Be able to read and Interpret blueprint welding symbols to fabricate components
- Know basics fundamentals of math and measurements
- Demonstrates professional and ethical work behavior
- Know the basic principles and application of metallurgy
- Be capable of entering an entry level welding position

### **Graduates of the Welding program will:**

- Be able to weld in (flat, horizontal, vertical positions,) using the basic welding processes SMAW, GMAW GTAW
- Be able to cut metals using (Oxyfuel and, Plasma, Arc) cutting process
- Know the basic fundamentals of welding processes and applications, metallurgy
- Be able to read and interpret basic blueprints, and welding symbols
- Apply basic math and measurement
- Understand and follow industry safety practices
- Have the communication, human relations, and leadership skills to be able to obtain and retain a welding position.
- Have completed a resume, developed a job search plan, and will be able to present themselves at a job interview.
- Use computing technology as a tool in supporting learning, communication, and in direct support of design specific tasks.

### **Career Opportunities**

- Combination Welder
- Construction Welder
- Maintenance Welder
- MIG Welder
- Structural Welder
- Production Line Welder
- Shipyard Welder
- TIG Welder
- Pipe Welder
- Welder, Fitter
- Welding Repair
- Counterperson in Distributorship
- Under water welder

### **Advancement Opportunities**

- Certified Welder
- Layout Person
- Owner of Fabrication Shop
- Set-Up Welder
- Tool and Die Welder
- Weld Shop Supervisor
- Weld Tester
- Welding Dealer, Distributor, Demonstrator
- Welding Engineer
- Welding Inspector
- Welding Instructor
- Welding Repair Shop Owner
- Welding Technician
- Under water welder

*Potential advancement generally requires further education.*