

Upon completion of the program, students will be able to:

- Demonstrate integrity, motivation, dependability and reliability and willingness to learn.
- Demonstrate skills related to applied science, basic computers, applied mathematics/measurements, reading for information, listening and following directions.
- Demonstrate understanding of business fundamentals, teamwork, adaptability/flexibility, planning and organizing, problem solving and decision-making and applied technology.
- Demonstrate competencies in manufacturing process development and design, production, maintenance installation and repair, along with health and safety.
- Demonstrate welding fundamentals, processes and equipment, materials and metallurgy and welding safety.
- Demonstrate knowledge in safety and health, drawing and symbols, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc



Welding (FCAW), Oxygen Fuel Cutting (O

James Madison School Hours

Full-time days

8:25 A.M. - 4:00 P.M.

*** For more information and registration, call:**

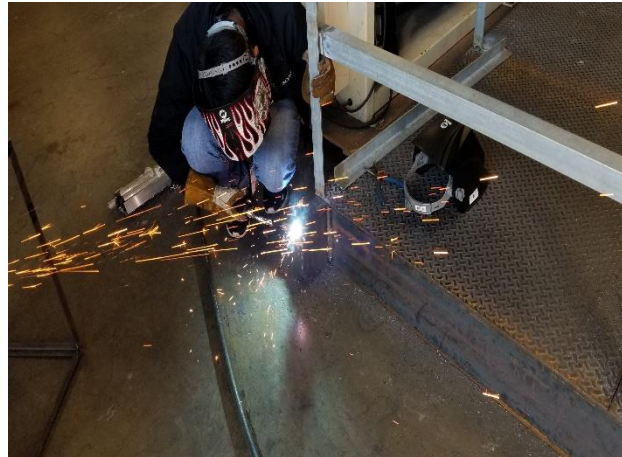
James Madison High School

Main Office at 713-433-9801

Principal Mrs. Brown

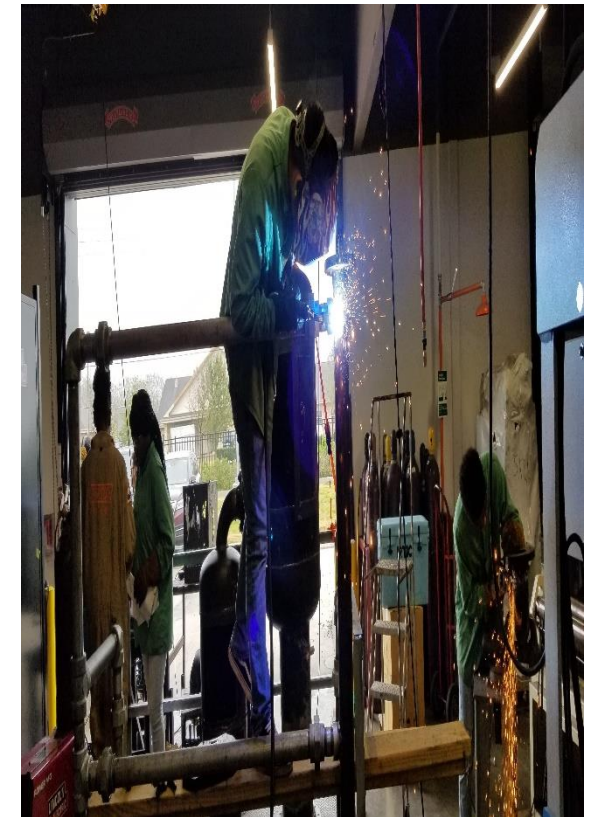
Teachers Mrs. Lewis and Mr. Greaves

Visit our website: www.weld1.weebly.com



EXPAND YOUR HORIZON

A Career In
Welding



Build Your Future Out of Steel

BEYOND THE CLASSROOM

Career Opportunities in Welding

- Fabricated Metal Manufacturing
- Transportation Equipment Manufacturing (Motor Vehicle Body and Parts, Ship and Boat Building)
- Farm Machinery Manufacturing
- Mining Machinery Manufacturing
- Architectural and Structural Metals Manufacturing ● Construction
- Maintenance Welding
- Welding Inspectors
- Welding Instructors
- Welding Supplies Sales Personnel

A student graduating from the Welding program can seek entry level employment as a welder or apprentice welder in a variety of fields including boilermaker, production welder, maintenance welder, millwright, aerospace welder, fitter welder, collision repair welder, welding inspector, pipeline welder, etc.

Course Outline Students will study the following areas:

- Introduction to Metals
- Measurement and Layout Techniques
- Sheet metal Processes
- Sketch Patterns and Blueprints
- Intermediate MIG Welding
- Introduction to TIG Welding
- Advanced Arc Welding
- Applied Layout and Design
- Advanced MIG Welding
- Safety in the workplace

NCCER Certification