



Welding

Advanced Manufacturing

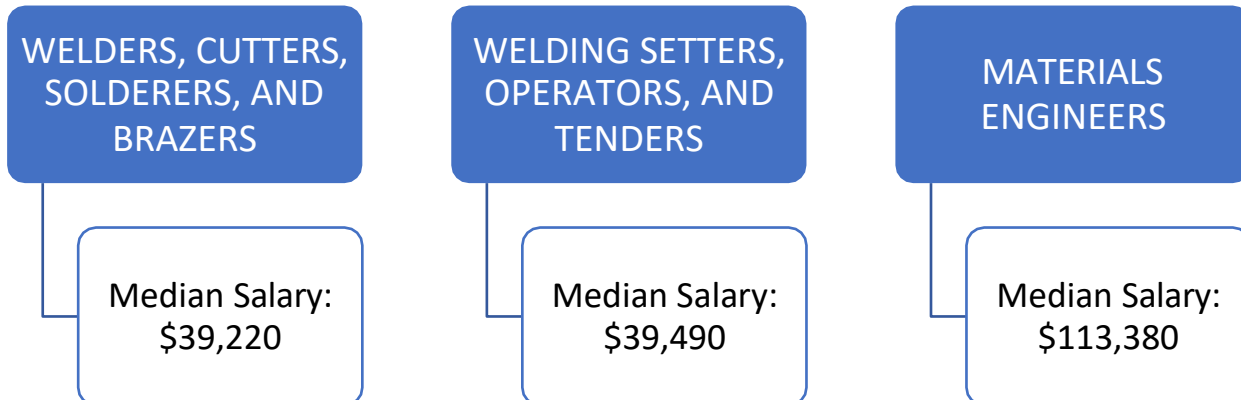
JOB OUTLOOK

Job demand for welders is strong in both construction and manufacturing. Welders are needed in manufacturing because of the importance and versatility of welding. The nation’s aging infrastructure will require the expertise of welders, cutters, solders, and blazers to help rebuild bridges, highways, and buildings. There are many job openings to replace retiring workers. The basic skills of welding are similar across multiple industries, so welders can easily shift from one industry to another, depending on where they are needed most.



OCCUPATION PROFILE

Welding careers are an integral part of Advanced Manufacturing. Welders, cutters, solderers, and blazers use hand-held or remotely controlled equipment to join, repair, or cut metal parts and products. They may work outdoors, often inclement weather, or indoors, sometimes in a confined area. They may work on a scaffold, high off the ground, and they occasionally must lift heavy objects and work in awkward positions. Some welders go on to earn their bachelor’s degree as material engineers.



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Memphis-Shelby County Schools



ROAD MAP TO SUCCESS

PROGRAM OF STUDY PROFILE

The Welding program of study prepares students to be entry-level welders. Courses emphasize safe practices, basic arc welding, thermal cuttings skills, and gas metal arc welding. Welding, cutting, soldering and brazing skills improve as students take the series of courses which prepare students for an American Welding Society certification.

CAREER PATHWAY

SECONDARY EDUCATION

- * Principles of Manufacturing
- * Welding I
- * Welding II
- * Manufacturing Practicum

CERTIFICATIONS

- * Welding
- * Dual Enrollment: Moore Tech/TACT

ASSOCIATES

- * A.A.S. Welding Technology
- * A.A.T. Welding

BACHELORS

- * B.S. MECHANICAL ENGINEERING
- * B.S. MANUFACTURING ENGINEERING TECHNOLOGY
- * B.S. MECHANICAL ENGINEERING

MSCS PARTICIPATING SCHOOLS: Kingsbury CTC & Southwest CTC

DUAL ENROLLMENT: Welding Technology – Kingsbury CTC + Tennessee College of Applied Technology (TCAT)

LOCAL EMPLOYERS: Associated Wholesale Grocers, Atlantic Track, Aerotek, Nucor Steel, Smith & Nephew, Morgan Steel, Carvana, Greater Memphis Chamber, Johnson Equipment Company, NexAir