

WELDER

ABOUT THIS JOB

Welders use hand-welding, flame-cutting, hand soldering or brazing equipment to weld metal components or to fill holes, indentations or seams of fabricated metal products. Welders typically like to work with their hands, enjoy examining materials and may operate heavy equipment.

WELDERS PERFORM THE FOLLOWING TASKS:

- Weld components in flat, vertical or overhead positions
- Ignite torches or start power supplies and strike arcs by touching electrodes to metals being welded, completing electrical circuits
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain required configurations and positions for welding
- Detect faulty operation of equipment or defective materials and notify supervisors
- Operate manual or semi-automatic welding equipment to fuse metal segments, using processes such as gas tungsten arc, gas metal arc, flux-cored arc, plasma arc, shielded metal arc, resistance welding and submerged arc welding
- Monitor the fitting, burning and welding processes to avoid overheating of parts or warping, shrinking, distortion or expansion of material
- Examine work pieces for defects and measure work pieces with straightedges or templates to ensure conformance with specifications
- Recognize, set up, and operate hand and power tools common to the welding trade such as shielded metal arc and gas metal arc welding equipment
- Layout, position, align and secure parts prior to assembly using straightedges, combination squares, calipers and rulers

PREPARATION AND TRAINING FOR THIS POSITION

A high school diploma or GED, and vocational training and certification in welding are required. Completion of a licensed apprenticeship program is preferred.



EDUCATION:

- * **HIGH SCHOOL DIPLOMA OR GED**
- * **VOCATIONAL SCHOOL**
- * **APPRENTICESHIP PREFERRED**
- * **SPECIAL CERTIFICATION**