



FUNCTIONAL JOB DESCRIPTION

JOB TITLE: Welder

DEPARTMENT: Welding

REPORTS TO: Foreman

STATUS: Non-Exempt

SUMMARY: Is capable of performing a variety of welding functions. The individual should be familiar with and capable of using various types of welding equipment. A welder is also required to perform other miscellaneous tasks, as supervision deems necessary.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Reads and interprets blueprints and machine drawings to determine specific welding requirements.
- Connects cables from welding unit to obtain amperage, voltage, slope, and pulse, as specified by engineer.
- Manually guides electrode or gun along weld line, maintaining length of arc and speed of movement to form specified depth of fusion and bead, as judged from color of metal, sound of weld, and size of molten puddle.
- Welds in flat, horizontal, vertical or overhead positions.
- Examines weld for bead size and other specifications.
- Repairs broken or cracked parts and fills holes.
- Positions and clamps workpieces together or assembles them in jig or fixtures.
- Selects torch, torch tip, filler rod and flux, according to welding chart specifications or type and thickness of material.
- Tacks assemblies together.
- Chips off excess weld, slag, and spatter.
- Cleans or de-greases parts.
- Performs all necessary maintenance and repair on all equipment used in welding.
- Be able to move parts in and move finished product out of welding area.

EDUCATION (OR EQUIVALENT EXPERIENCE): Associate's degree (A.A.) or equivalent from two year college or technical school; or six months to one year related experience and/or training; or equivalent combination of education and experience.

LICENSES OR CERTIFICATIONS: Forklift training certificate or the ability to receive it.

SKILLS/KNOWLEDGE/ABILITIES REQUIRED:

- Ability to read and interpret documents furnished in written, oral, diagram or schedule form such as safety rules, operating and maintenance instructions, quality manuals and procedure manuals.
- Ability to deal with problems involving several concrete variables in standardized situations.
- Be able to read and interpret blueprints.
- Must be able to read a tape measure.
- Ability to perform simple shop math, convert decimals to fractional equivalents.
- Ability to use weld fillet gauges to ensure proper weld size and interpret tolerances.
- Must be able to identify and measure material.

PHYSICAL DEMANDS:

- Day shift is 8 hours; night shift is 10 hours
- Stand-continuously (8-10 hours)
- Walk-occasionally (2 hours)
- Sit-rarely, very seldom may sit the entire shift
- Lift to/from floor-up to 50 lbs. occasionally (components), up to 25 lbs. frequent (components)
- Lift overhead-up to 20 lbs. rarely (components), 10 lbs. occasionally (components)
- Lift waist level-up to 50 lbs. occasionally (components), 25 lbs. frequent (components)
- Two hand carry-up to 30 lbs. for 5 feet, occasionally (components), heavier items are moved with a hoist
- One hand carry-2 lbs. for 5 feet occasionally (gun)
- Push/pull-up to 53 lbs. force (total 105 lbs. force) with 2 employees to initiate movement of large A-frame carts with 2 employees, rarely, 50 lbs. force (total 92 lbs. force) with 2 employees to initiate movement of large cart rarely, up to 38 lbs. force (total 75 lbs. force) with 2 employees to initiate movement of loaded carts occasionally, may move the carts into ovens a distance of 30 feet
- Elevated work (reaching)-frequently (to work on main frames)
- Twist-rarely (to reach areas on frames)
- Bend-frequently (to reach areas on frames during welding, grinding, working on components on sawhorses or tables)
- Squat-occasionally (working around frames)
- Kneel or crouch-frequently (welding frames, grinding)
- Crawl-rarely (to get under frames)
- Stair climb-occasionally (rolling stairs)
- Ladder climb- occasionally (to reach upper parts of frames for welding or grinding)
- Balance-frequently (walking or standing around welding equipment, machines and components)
- Manual dexterity-rarely (writing, handling small items)
- Firm grasp-continuously (handling equipment and components, holding gun all shift with dominant hand)
- Foot pedal operation-occasionally (to operate tig welding unit)

Lifting more than 50 lbs. is performed by two employees or mechanical assistance is required

KEY:

Rarely	1-5% of day
Occasionally	6-33% of day
Frequent	34-66% of day
Continuously	67-100% of day

ENVIRONMENTAL EXPOSURE:

- May be inside 95% of day, outside 5% of day to get material or place finished product outside, temperature exposure may be 70-100 degrees inside near ovens, and outside varies between -20 to 100 degrees + with high humidity in summer
- Confined spaces-slight
- High elevations-slight
- Moving objects-moderate (forklifts, carts)
- Noise level-severe (equipment)
- Slippery surface-moderate (floor sweats in summer, outside may be slippery in winter)
- Vibration-moderate (equipment, tools)
- Air pollution-moderate (dust, welding smoke)

VISION AND HEARING REQUIRED:

- Near vision and depth perception-significant
- Far vision-minimal
- Hearing sensitivity-minimal

PROTECTIVE EQUIPMENT: hard hat when using bridge crane, welding helmet when welding, eye protection, safety shoes, protective clothing, and ear plugs.

EQUIPMENT USED TO PERFORM JOB: Mig welder, plasma cutter, cutting torch, hand grinders, hand tools, measuring tools, belt sander, forklift, overhead hoist, bridge crane, steel saw horse, broom.

*Each employee should be aware that changes in this job description could occur at any time. Also this job description is not to be considered or construed to be a contract of employment.

APPROVAL DATE

Employee Signature

Date

Foreman

Date