

WELDER

DEFINITION: Under general supervision, performs journey level welding work of moderate difficulty; builds, repairs, and modifies equipment, steel structures such as water tanks and water lines that are under extreme pressure, wind mills, and various metal buildings; joins a variety of metal parts or components independently and professionally using several different gas torch processes and electrical arc welding processes; performs related work as assigned.

ESSENTIAL FUNCTIONS: This list is ILLUSTRATIVE ONLY and is not a comprehensive listing of all functions and tasks performed by incumbents of this class.

TASKS:

Joins all types of commonly used metal parts of various sizes, shape and thickness; joins metals according to sketches, blueprints and work orders provided by supervisor; assures proper weld penetration are free from any form of defects, such as air pockets; determines welding techniques by selecting appropriate welding electrodes or rods; prevents metal distortion or burning of the parts being welded; brazes, solders and arc-cuts.

Fabricates catwalks, handrails, ramps, steps, window and door guards; remodels and extends irrigation pipes to different angles; completes irrigation turnout gates; reinforces brackets; inspects heavy equipment metal structure; repairs cracks on heavy equipment; welds brazes and solders all types of metals; estimates amount of materials, equipment and welding supplies for work orders and submits.

Lubricates and performs preventative maintenance on all welding equipment, power and hand tools; repairs cell doors, locks and fence gates; installs drainage and overflow pipes and develops ground for floor plates of water storage tanks; installs ring wall and floor, erects walls and welds hooks on plates; completes work orders, time and mileage sheets.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of technical welding and metal fabrication methods, techniques and terminology.

Knowledge of power tools, equipment and supplies utilized in all types of welding activities.

Knowledge of occupational safety and health regulations and guidelines.

Knowledge of EPA regulations and guidelines related to toxic chemicals, oxygen and acetylene tanks.

Knowledge of crew leader responsibilities and practices.

Knowledge of gas, water and sewer line installation, maintenance and repair.

Knowledge of sources of supply, prices, grades/qualities of materials, supplies and equipment.

Skill in accurately estimating amounts of materials and supplies for work orders.

Skill in arc, Heliarc, MIC and acetylene welding in all ferrous and non-ferrous metals.

Skill in safely installing, replacing and repairing sewer, gas and water lines.

Skill in safely utilizing technical, power and hand tools in the installation, repair and maintenance of water storage tanks and metal fabrication.

Skill in following verbal and written directions, schematics, blueprints and as built plans.

Skill in safely following safety, health and environmental protection practices and procedures.

Skill in assigning, reviewing and inspecting work.

Skill in establishing and maintaining effective working relationships.

Ability to read and follow directions, instructions, specifications and schematics.

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PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work requires lifting, carrying materials, equipment and supplies weighing up to 100 pounds; climbing ladders, crawling under subflooring, working in attics, crawling, kneeling and working in confined spaces in all types of weather conditions.

MINIMUM QUALIFICATIONS:

- A high school diploma or GED; two (2) year experience in welding or various journeyman level welding.

PREFERRED QUALIFICATIONS:

- Two (2) years trade or technical school in welding.

SPECIAL REQUIREMENTS:

- Possess Welding Certification; and a valid state driver's license.

Supplemental Information:

Incumbent must obtain a Navajo Nation Vehicle Operator's Permit within 90 days of date of hire. Some positions may require additional certifications or licenses depending on area of assignment.

Depending upon the needs of the Nation, some incumbents of the class may be required to demonstrate fluency in both the Navajo and English languages as a condition of employment.