



City of Phoenix WELDER

JOB CODE 74400

Effective Date: 06/95

DISTINGUISHING FEATURES OF THE CLASS:

The fundamental reason this classification exists is to perform skilled welding work in the fabrication and repair of metal equipment. Welders use acetylene and electrical equipment in the fabricating, heating, welding, cutting, and brazing of ferrous and non-ferrous metals in accordance with standard trade practices. Generally, welding assignments are accompanied by blueprints, sketches, and oral instructions indicating the type of material to be used. Work includes performing mechanical repairs on heavy duty equipment. Work methods or techniques are left to the discretion of the employee, subject to inspection as to the volume of production and quality of workmanship.

ESSENTIAL FUNCTIONS:

- Welds shafts, cams, spindles, hubs, and bushings on automobiles, trucks, trailers, well pumps, booster pumps, etc.;
- Welds a variety of park, playground, and sports equipment and facilities;
- Performs mechanical repairs on heavy duty automotive equipment;
- Performs welding tasks in well fields and water and wastewater treatment plant to ensure water tight integrity;
- Repairs airport hanger doors and performs welding operations on airport automotive equipment;
- Creates and updates written of work accomplished;
- Performs miscellaneous welding work required during the construction and repair of City buildings;
- Welds storm grates and manholes;
- Straightens and rebuilds heavy duty equipment;
- Performs aluminum welding;
- Welds various traffic signal poles and utility poles;
- Welds fire trucks, water tanks, stainless steel, and brass fittings;
- Fabricates various objects from oral instructions;
- Maintains regular and reliable attendance.
- Demonstrates superior seamless customer service, integrity, and commitment to innovation, efficiency, and fiscally responsible activity.

Required Knowledge, Skills and Abilities:

Knowledge of:



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- The standard tools, materials, motions, and practices of the welding trade.
- Ferrous and non-ferrous metals in relating to welding and brazing.
- Occupational hazards and effective safety precautions of the trade.
- Arc air procedures and equipment.

Skill in:

- The use of acetylene and electronic welding equipment (i.e., MIG, TIG, and standard) and other standard tools and equipment related to the trade.

Ability to:

- Read and interpret blueprints and working drawings.
- Plan welding work and make estimates of materials required.
- Make precise arm-hand positioning movements and maintain static arm-hand position.
- Make fine, highly controlled muscular movements to adjust the position of a control mechanism.
- Make skillful, controlled manipulations of small objects.
- Lift arms above shoulder level.
- Work in small, cramped areas.
- Work at heights or depths greater than ten feet.
- Climb ladders or stairs to reach objects.
- Clean equipment using appropriate materials.
- Move heavy objects (50 pounds or more) long distances (more than 20 feet).
- Remain in a standing position for extended periods of time.
- Learn job-related material primarily through oral instruction and observation. This learning takes place mainly in an on-the-job training setting.
- Utilize independent judgment in the performance of duties.
- Work nights.
- Work in a variety of weather conditions with exposure to the elements.
- Measure distance using a tape measure or other measuring device.
- Observe or monitor objects to determine compliance with prescribed operating or safety standards.
- Visually inspect welds to determine compliance with standards.
- Work safely without presenting a direct threat to self or others.

Additional Requirements:

- Some positions will require the performance of other essential and marginal functions depending upon work location, assignment or shift.
- Some positions require the use of personal or City vehicles on City business. Individuals must be physically capable of operating the vehicles safely, possess



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a valid driver's license and have an acceptable driving record. In addition, individuals may be required to pass an Arizona Department of Transportation physical exam and possess the appropriate commercial driver's license (CDL). Pre-employment drug testing is required for CDL positions. Employees in CDL positions will be subject to unannounced alcohol and drug testing as a condition of continued employment. Use of a personal vehicle for City business will be prohibited if the employee does not have personal insurance coverage.

ACCEPTABLE EXPERIENCE AND TRAINING:

One year of experience as a skilled welder, or the completion of a recognized welding apprenticeship. Other combinations of experience and education that meet the minimum requirements may be substituted.