

## PIPELINE WELDER

**PURPOSE:** Perform pipe or plate welding projects in the shop or in the field.

### FUNCTIONAL AREAS:

1. Complete pipe or plate welding projects in the shop or in the field.
  - \* A. Install and verify operation of high pressure steel gas pipe and fittings, stopple, or related equipment on gas lines, and no blow service tees.
  - \* B. Repair and replace any damaged steel or plastic pipe.
  - \* C. Fabricate and install steel fittings on the water mains.
  - \* D. Perform all fusing of plastic pipe and fittings on high pressure gas mains, water mains & sewer mains.
  - \* E. Construct truck bumper brackets, truck bed trailer hitches, and cages and guards for meters, and regulator stations.
  - F. Repair backhoe diggers, buckets, and stabilizers.
  - G. Cut and thread pipe for water and gas service boxes.
  - \* H. Complete logs, reports, work orders, requisitions, and other records and communications as required.
  
2. Perform related work as needed
  - \* A. Drive service vehicle to various locations.
  - \* B. Repair and maintain tools and equipment.
  - \* C. Ensure compliance with all established standards and procedures for joining materials.
  - \* D. Maintain a current body of knowledge concerning products and methods for joining materials.
  - \* E. Administer performance exams in plastic pipe fusing to outside contractors.
  - \* F. Establish new standards and procedures as required.
  - \* G. Conduct fusion inspection training for City staff and outside consultants as needed.
  - \* H. Maintain an adequate inventory of supplies and materials for operations assigned.
  - \* I. Ensure all work is accomplished in the safest manner possible.
  - \* J. Monitor and direct work to ensure compliance with established methods, guidelines, standards, and procedures during welding operations.
  - \* K. Instruct personnel in safe operating procedures.

## JOB REQUIREMENTS

1. Education and Experience
  - † A. Past verifiable certification for pipe welding as prescribed by one of the applicable codes of the profession and four years of responsible field experience in welding.
2. Certification and License
  - A. Ability to acquire within six months of appointment and maintain throughout employment, state certification for API 1104 pipeline welding, fillet welding, plastic pipe welding, and electro fusing.
  - † B. Possession of a valid Minnesota driver's license or equivalent.
3. Knowledge
  - † A. Knowledge of the strength and welding characteristics of various metals.
  - † B. Knowledge of safe work procedures, especially as they relate to working on gas pipelines.
  - † C. Knowledge of the tools, terms, and equipment used in pipeline and plate welding.
  - † D. Knowledge of basic math including addition, subtraction, multiplication, and division.
  - E. Knowledge of the City of Duluth Gas Operations & Maintenance Manual.
4. Skills
  - † A. Skill in reading and interpreting plans, blueprints, and specifications.
  - † B. Skill in laying out and welding water and gas lines in the field and in the shop.
  - † C. Skill in recognizing the mechanical functions of moving parts, and applying such insight to welding projects.
  - † D. Skill in fusing plastic pipes.
5. Abilities
  - † A. Ability to stand for long periods of time, and to frequently stoop, crouch, kneel, and perform other related physical activities.
  - † B. Ability to frequently lift and carry materials and supplies such as fusing equipment, welding equipment, and steel pipes weighing up to 100 pounds. Ability to lift and carry with others pipe weighing up to 200 pounds.
  - † C. Ability to establish and maintain effective working relationships with coworkers, other City Departments, outside contractors, and the general

- public.
- † D. Ability to give performance exams in plastic pipe fusing to outside contractors.
- † E. Ability to use protractors, and other tools and equipment to measure and set angles for fittings.
- † F. Ability to complete simple forms and logs.
- † G. Ability to understand policy and procedure manuals.
- † H. Ability to work under stressful situations.
- † I. Ability to attend work on a regular basis.
- † J. Ability to give clear and concise instructions regarding work assignments to crews.

\* Essential functions of the classification.

† Minimum classification requirements on the first day of employment.

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Union: Basic	Pay: 31
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CC: 20060424	Res: 06-0234R