

## PIPELINE WELDER

### SUMMARY/PURPOSE:

Perform pipe or plate welding projects in the shop or in the field.

### ESSENTIAL DUTIES AND RESPONSIBILITIESFUNCTIONAL AREAS:

1. Be an effective team member by exhibiting self-motivation, supporting other employees in handling tasks, interacting effectively and respectfully with others, showing a desire to contribute to the team effort, accepting assignments willingly, and completing tasks within agreed upon timelines.
2. Complete pipe or plate welding projects in the shop or in the field.
3. \* A. Install and verify operation of ~~high-pressure~~high-pressure steel gas pipe and fittings, stopple, or related equipment on gas lines, and no blow service tees.
4. \* B. Repair and replace any damaged steel or plastic pipe.
5. \* C. Fabricate and install steel fittings on the water mains.
6. \* D. Perform all fusing of plastic pipe and fittings on ~~high-pressure~~high-pressure gas mains, water mains, and sewer mains.
7. \* E. Construct truck bumper brackets, truck bed trailer hitches, and cages and guards for meters, and regulator stations.
8. \* F. ~~Repair backhoe diggers, buckets, and stabilizers.~~
9. \* G. Cut and thread pipe for water and gas service boxes.
10. \* H. Complete logs, reports, work orders, requisitions, and other records and communications as required.
10. 2. Perform related work as needed
- \* A. Drive service vehicle to various locations.
11. \* B. Repair and maintain tools and equipment including backhoe diggers, buckets, and stabilizers.
12. \* C. Ensure compliance with all established standards and procedures for joining materials.
13. \* D. Maintain a current body of knowledge concerning products and methods for joining materials.
14. \* E. Administer performance exams in plastic pipe fusing to outside contractors.
15. \* F. Establish new standards and procedures as required.
16. Perform asbestos removal and disposal.
17. Establish welding procedures to comply with MnOps requirements that allow the City to operate its natural gas distribution system.
18. Operate fusion equipment that is used for installing new water, sewer, and gas mains.
19. \* G. Conduct fusion inspection training for City staff and outside consultants as needed.
20. Facilitate testing for contractors working on City projects including training of consultants who inspect projects, and training of City personnel for the purpose of inspecting work done by contractors.
21. \* H. Maintain an adequate inventory of supplies and materials for operations assigned.
22. \* I. Ensure all work is accomplished in the safest manner possible.
23. \* J. Monitor and direct work to ensure compliance with established methods, guidelines, standards, and procedures during welding operations.

24. \* K. Instruct personnel in safe operating procedures.  
25. Stay up to date on required Operator Qualifications (OQ's).

## JOB REQUIREMENTS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skills, and abilities required.

### 1. Education and Experience Requirements

- H — 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 Requirements

- 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.  
H — B. Possession of a valid Minnesota driver's license or equivalent.  
C. Level 3 Asbestos Abatement operations and maintenance certification required annually.

### 3. Knowledge Requirements

- H — A. Knowledge of the strength and welding characteristics of various metals.  
H — B. Knowledge of safe work procedures, especially as they relate to working on gas pipelines.  
H — C. Knowledge of the tools, terms, and equipment used in pipeline and plate welding.  
H — D. Knowledge of basic math including addition, subtraction, multiplication, and division.  
E. Knowledge of the City of Duluth Gas Operations & Maintenance Manual.  
F. Knowledge of construction codes and federal regulations related to scope of work.  
G. Knowledge of safety guidelines and requirements associated with this work.

### 4. Skills

- H — A. Skill in reading and interpreting plans, blueprints, and specifications.  
H — B. Skill in laying out and welding water and gas lines in the field and in the shop.  
C. H — C. Skill in recognizing the mechanical functions of moving parts, and applying such insight to welding projects.  
H — D. Skill in fusing plastic pipes.

### 5. Ability Requirements ~~ies~~

- A. H — A. Ability to create and maintain a positive working environment that welcomes diversity, ensures cooperation, and promotes respect by sharing expertise with team members, fostering safe work practices, and developing trusting work relationships.

- ~~B.~~ Ability to establish and maintain effective working relationships with coworkers, other City Departments, outside contractors, and the general public.
- ~~C.~~ Ability to adapt to changing technology and troubleshoot issues as they arise.
- ~~D.~~ Ability to interpret construction codes and federal regulations to incorporate in to daily duties and responsibilities.
- ~~E.~~ Ability to understand blueprints in order to fabricate natural gas regulator stations and their installation.
- ~~F.~~ Ability to successfully complete Operator Qualifications program.
- ~~Ability to complete Level 3 Asbestos Abatement operations and maintenance certification annually. Ability to stand for long periods of time, and to frequently stoop, crouch, kneel, and perform other related physical activities.~~
- ~~H 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.
- ~~G. H C.~~ Ability to establish and maintain effective working relationships with coworkers, other City Departments, outside contractors, and the general public.
- ~~DE.~~ Ability to give performance exams in plastic pipe fusing to outside contractors.
- ~~H FE.~~ Ability to use protractors, and other tools and equipment to measure and set angles for fittings.
- ~~H GF.~~ Ability to complete simple forms and logs.
- ~~H HG.~~ Ability to understand policy and procedure manuals.
- ~~H IH.~~ Ability to work under stressful situation.
- ~~H I.~~ Ability to attend work on a regular basis.
- ~~H J.~~ Ability to give clear and concise instructions regarding work assignments to crews.

#### 6. Physical Ability Requirements

- ~~A.~~ Ability to stand for long periods of time.
- ~~B.~~ Ability to frequently stand, walk, stoop, crouch, kneel, and perform other related physical activities.
- ~~C.~~ Ability to frequently lift and carry materials and supplies such as fusing equipment, welding equipment, and steel pipes weighing up to 50 400 pounds. Ability to lift and carry with others pipe weighing up to 100 200 pounds.
- ~~D.~~ Ability to work outdoors in inclement weather.
- ~~E.~~ Ability to work in confined spaces.
- ~~F.~~ Ability to work from ladders, scaffolds, or lift equipment.
- ~~G.~~ Ability to work expanded shifts and /or be called in for emergency work with little or no advance notice.
- ~~H.~~ Ability to transport oneself to, from, and around sites of projects, tests, and other assignments.
- ~~I.~~ Ability to attend work on a regular basis.

\* ~~Essential functions of the classification.~~

H ~~Minimum classification requirements on the first day of employment.~~

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| HR: <del>GT</del> | Union: Basic       | EEOC: Skilled Craft Workers    | CSB: <del>20060207</del> | Class No: <del>4432</del>       |
| WC: 6319          | Pay: <del>34</del> | EEOF: Utilities/Transportation | CC: <del>20060424</del>  | Resolution: <del>06-0234R</del> |