

**NOTICE OF PROPOSED CLASSIFICATION ACTIONS BY  
THE HUMAN RESOURCES DIRECTOR**

The following actions are being posted in accordance with Civil Service Rule 109. In the absence of a protest addressed to the Human Resources Director, the proposed changes will become final seven (7) calendar days from the posting date.

**Posting No:** 102  
**Fiscal Year:** 2015/2016  
**Posted Date:** 06/20/2016  
**Reposted Date:** N/A

**AMEND THE FOLLOWING JOB SPECIFICATION(S):**  
*(Job specification(s) attached.)*

Item #	Job Code	Title
1	9346	Fusion Welder

**Protests on an item should be addressed to the Human Resources Director** and can be submitted by mail to the City and County of San Francisco, Department of Human Resources, 1 South Van Ness Ave, 4th Floor, San Francisco, CA 94103 or by email to [DHR.ClassificationActionPostings@sfgov.org](mailto:DHR.ClassificationActionPostings@sfgov.org). All protests must be received in writing no later than close of business seven (7) calendar days from the posting date, and must include the posting and item number(s), the basis on which the protest is submitted and identify the affected parties.

**For additional information regarding this proposed classification action**, please contact Victor Vallejo, Clerk, at (415) 557-4894 or by email at [Victor.H.Vallejo@sfgov.org](mailto:Victor.H.Vallejo@sfgov.org).

Copies of this notice may be obtained from the Department of Human Resources or from the website at: <http://sfdhr.org/index.aspx?page=109>. Copies of Civil Service Rule 109 may be obtained from the Department of Human Resources, the office of the Civil Service Commission at 25 Van Ness Ave, Suite 720, San Francisco, CA 94102 or from the website at: <http://www.sfgov3.org/index.aspx?page=328>.

**cc:** All Employee Organizations  
All Departmental Personnel Officers  
DHR – Class and Comp Unit  
DHR – Client Services Unit  
DHR – Employee Relations Unit  
DHR – Recruitment and Assessment Unit  
DHR – Client Services Support Services  
Micki Callahan, DHR  
Michael Brown, CSC  
Sandra Eng, CSC  
Maria Newport, SFERS  
Risa Sandler, Controller/Budget Division  
Devin Macaulay, Controller/ Budget Division  
Theresa Kao, Controller/ Budget Division  
Drew Murrell, Controller/ Budget Division  
Alex Koskinen, Controller/ Budget Division  
E-File

**CITY AND COUNTY OF SAN FRANCISCO  
DEPARTMENT OF HUMAN RESOURCES**

**Title: Fusion Welder  
Job Code: 9346**

**INTRODUCTION**

Under general supervision, performs skilled journey-level welding, brazing, cutting and burning to repair and fabricate metal parts and equipment in order to maintain boilers, pile-drivers, cranes, structural members, superstructure, infrastructure and heavy construction equipment. Fusion welders operate Tungsten Inert Gas (TIG), Metal Inert Gas (MIG), electric arc and oxyacetylene welding equipment and electric burning and arc gouging equipment, hydraulic press, shear, punch press, drill press, saw and forklift.

**DISTINGUISHING FEATURES**

The 9346 Fusion Welder performs skilled welding work to repair and maintain boilers, structures, boats, vehicles and heavy construction equipment. The 9346 Fusion Welder is distinguished from Class 7360 Pipe Welder in that the latter installs, repairs and maintains water distribution pipelines and related facilities; as well as welds on pressure vessels (high pressure pipelines) It is distinguished from Class 7390 Welder which performs skilled welding work related to the repair and maintenance of facilities, various types of transit vehicles and related equipment.

**SUPERVISION EXERCISED**

None.

**MAJOR, IMPORTANT, AND ESSENTIAL DUTIES**

*According to Civil Service Commission Rule 109, the duties specified below are representative of the range of duties assigned to this job code/class and are not intended to be an inclusive list.*

1. Welds, brazes and cuts all types of metals by using different types of welding equipment and rods to fabricate new, or repair/ build worn/ broken equipment.
2. Lays-out, cuts and welds metals for boilers, etc., based on blueprints, by selecting and using the appropriate materials, welding equipment and welding method to repair and maintain maintenance equipment, vehicles, structural members, superstructure and infrastructure.
3. Repairs and replaces to superstructure, infrastructure and heavy construction equipment by fabricating, installing, burning and welding cuts by torch or shear, fits and welds to complete the units by application of stick, TIG, MIG, oxyacetylene, brazing and soldering.
4. Fabricates hand rails, ladders and walkways by laying out material, cutting by torch or shear, fitting and welding to insure safe conditions for operating and working on cranes, piers and buildings.
5. Repairs breaks and cracks by arc gauging and re-welding in order to maintain and keep cranes, heavy construction equipment, train and crane tracks in operational condition.
6. Inspects materials and equipment by checking for cracks or other marks indicating damage or wear, visually and by using magna flux and die check equipment in order to prevent failure equipment.
7. Details shop drawings in order to document characteristics of damage or failures.

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**IMPORTANT AND ESSENTIAL KNOWLEDGES, SKILLS, AND ABILITIES**

Knowledge of: Various types of welding rods required by the type and weights of metals being welded and the type of weld (e.g. penetration, beveled, fillet, butt) to obtain maximum welded strength and efficiency. Includes knowledge of types of rods and polarities used in each type of welding equipment; Metals, in reference to the composition and properties of various ferrous metals; non-ferrous metals and alloys; and methods of identifying and/ or welding them. Includes knowledge of necessary precautions and preheating methods to avoid distortion or breakage of parts when welded.

Ability and Skills to: Operate welding equipment in reference to the ability to independently select proper welding equipment based on the job to be done; set up and adjust oxyacetylene, electric arc, MIG, TIG welding equipment, and torch cutting and arc gouging equipment; and set the track, for automatic oxyacetylene machine to make proper cuts; Use magna flux and dye check equipment in reference to the ability to inspect and evaluate materials for checks, cracks or breaks, both in the field and in the shop; Wear respirator or similar personal protective equipment while making repairs to various structures which may cause exposure to lead paint and/or other hazardous fumes by burning and welding as needed to insure safe working conditions; Use and operate hand tools and welding equipment including machines, air compressors, metal shears, drill press, automatic burning machine, air rivet gun, gas forge, air chipping gun, 100 ton press, iron worker punch press and other tools and welding equipment; Read and draw symbols and work from complex blueprints to perform all types of welding, brazing, cutting and burning; Safety procedures, in reference to proper safety equipment (gloves, goggles) and safe handling of welding equipment. Includes use of safety harness when working at heights, respirators, hearing protection devices, and flotation devices for working on or around water; Effectively communicate in regards to maintenance needs, safety concerns, and/ or other job related issues.

**MINIMUM QUALIFICATIONS**

*These minimum qualifications establish the education, training, experience, special skills and/or license(s) which are required for employment in the classification. Please note, additional qualifications (i.e., special conditions) may apply to a particular position and will be stated on the exam/job announcement.*

Education:

Completion of a certified ~~three-year~~ Boilermaker's Apprenticeship Program, Ironworker's Apprenticeship Program, or Military certification.

Experience:

Three (3) years of verifiable journey-level welding experience. Experience ~~MUST have included boiler repairs AND the use of ALL the following:~~

- Tungsten Inert Gas (TIG)

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- Metal Inert Gas (MIG)
- Electric arc and oxyacetylene welding equipment
- Electric burning and arc gouging equipment

License and Certification:

Possession of a valid California driver's license ~~(to be presented at time of appointment).~~

**SUBSTITUTION:**

**Additional qualifying journey-level welding experience may be substituted for the required apprenticeship program/Military certification on a year-for year basis.**

**PROMOTIVE LINES**

<b>ORIGINATION DATE:</b>	1931
<b>AMENDED DATE:</b>	04/06/1933; 11/24/15; <b><u>06/XX/16</u></b>
<b>REASON FOR AMENDMENT</b>	<i>To accurately reflect the current tasks, knowledge, skills &amp; abilities, and minimum qualifications.</i>
<b>BUSINESS UNIT(S):</b>	COMMN