

## MARINE WELDER

### DESCRIPTION OF WORK

This is journey level work in welding on vessels in the Ferry Division. Employees perform acetylene and electric arc welding to permanently fuse metal parts of machinery and equipment on certified ferries. Work is characterized by requirements for close tolerance welding and for welding in a variety of physical positions. Work is performed under the general supervision of the Marine Hull Supervisor who reviews the quality of welding on non-certified vessels. Coast Guard Inspectors approve all welding performed on certified vessels in accordance with Coast Guard regulations.

### EXAMPLES OF DUTIES PERFORMED

Joins metal pieces by applying the torch or electric arc to surfaces and melting the welding rod and flux into the joint.

Burns or cuts through metal by melting and oxidizing with the hot flame and free oxygen.

Examines parent metals and alloys in order to determine their strength and properties, and determines the amount of heat to be applied.

Welds shafts using a pull line in the center to control alignment in the rotational areas; final alignment must be true within a very close tolerance.

Performs hydraulic system welds which must be bubble free and continuous; this requires that welding be done in all positions.

Performs related duties as required.

### RECRUITMENT STANDARDS

#### Knowledges, Skills, and Abilities

Working knowledge of the principles and methods of oxygen acetylene brazing and electric arc welding.

Working knowledge of the heating properties of a variety of alloys and parent metals.

Working knowledge of U.S. Coast Guard regulations pertaining to welding on steel vessels.

Ability to weld in overhead, flat, horizontal, and vertical positions.

Ability to work and follow oral and written directions.

Physical strength to move relatively heavy objects.

Minimum Training and Experience Requirements - Graduation from High School and three years of related experience or an equivalent combination of training and experience.

Minimum Training and Experience Requirements for a Trainee Appointment - Graduation from High School.

Special Note – This is a generalized representation of positions in this class and is not intended to identify essential functions per ADA. Examples of work are primarily functions of the majority of positions in this class, but may be applicable to all positions.