

## WELDER II

NATURE OF WORK IN THIS CLASS:

Performs skilled welding work in the fabrication, assembly and repair of metal equipment, tools, fixtures and other items by electrical and acetylene welding.

Employees in this class perform the full range of skilled tasks under general supervision and may lead less skilled workers on assigned tasks.

ILLUSTRATIVE EXAMPLES OF WORK: (These examples do not list all the duties which may be assigned; any one position may not include all the duties listed.)

Operates various electric resistance welding machines, such as spot, seam, and flash welders; uses manual gas torch welding process such as oxyacetylene; joins a variety of different kinds of parts or components; determines the welding techniques and machine settings to be used; assembles and sets up the parts to be welded and makes the required welds by following predetermined guides.

Lays out, fits, aligns and welds components of metal tools, dies, fixtures, and jigs; welds broken parts; adds welds metal to damaged or worn parts to repair tools and fittings; obtains specific torch and torch tip; connects torch hoses to oxygen and acetylene; turns handles to activate flow of gases; lights, torches and adjusts mixture to obtain flame of desired size and color; holds torch at proper angle to metal and guides it along weld line; examines weld for bead size and penetration; repairs broken or cracked metal objects; fills holes or builds up metal parts; performs brazing and flamecutting operations; welds along verticle or overhead weld lines; chips or grinds off excess weld; cleans or degreases parts using wire brush, portable grinder or chemical bath; inspects equipment for irregularities and makes adjustments.

Prepares estimates on labor and material costs on job orders; records job orders, time sheets and other related data.

Performs related duties as required.

MINIMUM KNOWLEDGE, ABILITIES, AND SKILLS:

Knowledge of the principles, methods, practices and techniques of electrical and acetylene welding.

Knowledge of the proper operation and maintenance of welding tools and equipment.

Ability to interpret and work directly from welding diagrams, blueprints, sketches, drawings and specifications.

Ability to work in awkward and cramped positions, such as welding in hard to reach places.

Ability to work in areas that are exposed to fumes, flying sparks, the glare of torches and heated materials.

Ability to prepare cost estimates and maintain records.

Ability to understand and follow written and oral instructions.

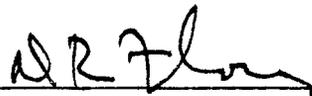
Ability to apply safe work practices on the job.

Skill in the welding trade.

MINIMUM EXPERIENCE AND TRAINING:

- (a) Four years of experience in the fabrication, assembly and repair of metal equipment, tools, fixtures and other items by electrical and acetylene welding; or
- (b) Any equivalent combination of experience and training which provides the minimum knowledges, abilities, and skills.

ESTABLISHED: JULY, 1980

  
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DAVID R. FLORES, Executive Director  
Civil Service Commission