



CLASS SPECIFICATION

07-28-06

PROTECTIVE COATING WORKER, 3463

Summary of Duties: A Protective Coating Worker prepares surfaces and applies cement mortar, or other protective coating or lining material to pipes, fittings, joints, and structures; and does related work.

Distinguishing Features: A Protective Coating Worker is responsible for the proper application of various protective coating and lining materials to metallic or concrete surfaces exposed to electrolysis, continuous dampness, and other corrosive conditions. An employee of this class may be required to work in trenches, in underground vaults, inside large pipes, and from scaffolds and ladders. The work involves frequent exposure to dangerous and obnoxious materials including extremely hot liquefied protective coating material and toxic fumes.

Examples of Duties:

- Wire brushes, scrapes, sandblasts, and cleans metal surfaces to remove scale, rust, and corrosion prior to the application of protective coating;
- Heats asphalt protective coating to required temperature in a kettle or with a torch; applies hot protective coating to prepared surfaces with a hand dauber, brush, or by pouring or wrapping;
- Daubs, brushes, or sprays primers, asphalt emulsions, paints, sealers, and epoxys to pipes, fittings, joints, sheet metal installations, concrete bases, and walls and floors of concrete vaults;
- Proportions and mixes cement and sand to proper consistency and applies it by hand, using trowels and other cement finishing tools, to internal and external surfaces of metal fittings, nipples, elbows, and structures; covers exposed joints of cement-coated pipes with cement;
- Fastens reinforcing wire mesh around pipes to hold cement in place;
- Cleans, adjusts, and makes minor repairs to pumps, blowers, spray guns, sandblasters, and other equipment;
- Assists in erecting scaffolding and staging for use in applying protective coating;
- Crawls through pipe to inspect, apply, and repair protective coating;
- Employs electric spark tester to test protective coating; and
- May occasionally be assigned to other duties for training purposes or to meet technological changes or unexpected emergencies.

Qualifications: Incumbents must have the following knowledge and abilities:

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Knowledge of:

- Methods, tools, and equipment used in the preparation for application, and in the application of cement, mortar, hot asphalt, coal tar enamel, tape and other protective coatings to metal, concrete, and other surfaces;
- Proper mixtures and temperatures of coatings for application; and
- Department of Water and Power safety rules, and general safety principles and practices related to the application of protective coatings.

Ability to:

- Understand and follow oral instructions;
- Use the tools and materials common to protective coating work effectively and safety; and
- Perform such work in trenches, vaults, and from scaffolding.

Requirements:

Three months of full-time paid experience in applying protective coatings to metal surfaces.

License: A valid California driver's license may be required prior to appointment.

Physical Requirements: Strength to perform average lifting of up to 25 pounds and occasionally over 50 pounds; body agility and equilibrium involved in activities such as climbing and balancing under precarious conditions; back and leg coordination involved in activities such as stooping, kneeling, crouching, and crawling to an unusual extent; arm, hand, and finger dexterity with both hands involved in activities such as reaching, handling, and feeling; good hearing ability; and good eyesight.

Persons with disabilities may be able to perform the essential duties of this class with reasonable accommodation. Reasonable accommodation will be evaluated on an individual basis and depend, in part, on the specific requirements for the job, the limitations related to the disability, and the ability of the hiring department to accommodate the limitation.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what all of the duties and responsibilities of any position shall be.