January 1, 2025
(Revised)

CLASS SPECIFICATION

SAN DIEGO CITY CIVIL SERVICE COMMISSION

PLANT PROCESS CONTROL SUPERVISOR - 1668

DEFINITION:

Under direction, to plan, supervise, and participate in the work of subordinate staff who install, test, adjust, modify, and maintain the most complex electrical lighting, wiring and power systems, electro-mechanical equipment, and machinery and control systems at wastewater and water treatment, filtration, and reclamation plants and water and sewer pump stations; to design, modify, and make programming and software improvements on computerized electrical system control and data acquisition operations; to analyze problems and make necessary repairs on electrical control systems required to interface with process control computers; to instruct Plant Process Control Electricians and other subordinate staff in the more difficult and complex aspects of their work assignments; and to perform related work.

* **EXAMPLES OF DUTIES:**

- Supervises, plans, schedules, assigns, and participates in the work of skilled subordinate staff who design, install, test, adjust, modify, and maintain digital and logic circuitry and microprocessor controlled electrical and electronic devices and elements, such as programmable logic controllers, process control equipment, recorders, sensors, alarms, and controllers on a wide variety of electrical, electro-mechanical, pneumatic, and hydraulic equipment and devices;
- Operates computer terminals, portable programming units, and complex electrical test equipment to analyze and troubleshoot instrumentation and control systems, instrumentation interface with process control computers, and process control problems;
- Designs, modifies, and tests complex relay ladder logic instruction sequences in the form of computer programs which direct logic controllers to monitor and control all electrically related phases of the water or wastewater treatment processes;
- Trains subordinate staff in new and current procedures of maintenance and troubleshooting of a wide variety of electrical equipment, control systems, and components;
- Performs mathematical computations for calibrating instruments and determining values of inputs and outputs in computer programs;
- Checks job requirements and requisitions material;
- Reviews, plans, and coordinates work with vendors, control computer hardware and software specialists, and plant operating and engineering personnel in determining process parameters, technical specifications for new and existing installations, and other technical matters regarding electrical, electro-mechanical, and process control systems;
- Plans and designs special electrical, electro-mechanical, process control, and related equipment;

* **EXAMPLES OF DUTIES** performed by employees in this class. The list may not include all required duties, nor are all listed tasks necessarily performed by everyone in this class.

- Enforces safety regulations, and keeps records and prepares reports;
- Reviews and evaluates the work performance of subordinates.

MINIMUM QUALIFICATIONS:

Please note: the minimum qualifications stated below are a guide for determining the education, training, experience, special skills, and/or license which may be required for employment in the class. These are re-evaluated each time the position is opened for recruitment. Please refer to the most recent Job Description for updated minimum qualifications: https://www.governmentjobs.com/careers/sandiego/classspecs.

Successful completion of an accredited four-year Electrician Apprenticeship Program, **AND** two years of full-time experience in all phases of work as a journey-level Electrician, **AND** one year of full-time experience diagnosing, repairing, and programming programmable logic controllers at a water or wastewater treatment plant or industrial production plant; **OR** successful completion of an accredited four-year Electronics Technician Apprenticeship Program, **AND** two years of full-time experience in all phases of work as a journey-level Electronics Technician, **AND** one year of full-time experience diagnosing, repairing, and programming programmable logic controllers at a water or wastewater treatment plant or industrial production plant; **OR** successful completion of an accredited Associate's Degree in Electronics Technology, **AND** four years of full-time experience in all phases of work as a journey-level Electronics Technician, **AND** one year of full-time experience diagnosing, repairing, and programming programmable logic controllers at a water or wastewater treatment plant or industrial production plan; **OR** six years of full-time experience in all phases of work as a journey-level Electrician or Electronics Technician, **AND** one year of full-time experience diagnosing, repairing, and programming programmable logic controllers at a water or wastewater treatment plant or industrial production plant.