CLASS SPECIFICATION
SAN DIEGO CITY CIVIL SERVICE COMMISSION
INSTRUMENTATION AND CONTROL SUPERVISOR

DEFINITION:
Under direction, to plan, supervise and participate in the work of subordinate staff who install, test, adjust, modify and maintain the most complex fixed and portable electronic and telemetry systems and equipment; design, modify and make programming and software improvements on computerized system control and data acquisition operations; analyze problems and make necessary repairs on electronic instrumentation control systems required to interface with process control computers; to instruct Instrumentation Control Technicians 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, microprocessor controlled devices and elements, such as programmable logic controllers, process control equipment, telemetering devices, recorders, sensors, alarms, and controllers on a wide variety of water and wastewater treatment process instruments and devices;
- Operates computer terminals, portable programming units and other complex electronic 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 water or wastewater treatment processes;
- Trains subordinate staff in new and current procedures of maintenance and troubleshooting of a wide variety of electronic equipment, control systems and components;
- Checks job requirements and requisitions material;
- Performs mathematical computations for calibrating instruments and determining values of inputs and outputs in computer programs;
- 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 digital unit process control systems;
- Enforces safety regulations;
- Keeps records and prepares reports;
- Reviews and evaluates the work performance of subordinates;
- Performs related work.

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 Announcement for updated minimum qualifications.

Successful completion of a State-accredited four-year or five-year Electronic Communications Technician Apprenticeship Program, OR four years of experience in all phases of work as a journey-level Electrician, of which two years must include installing, troubleshooting and repairing a variety of electrical machinery and equipment in permanent building systems, power generation plants, water or wastewater treatment plants, or industrial production plants: AND two years of experience in all phases of work at the level of the City of San Diego's classification of Instrumentation and Control Technician, repairing and programming logic controllers at a water or wastewater treatment plant or industrial production plant. Possession of a valid California Class C Driver’s License.

* 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.