

# CITY OF SIMI VALLEY

## PLANT MAINTENANCE TECHNICIAN III

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

### **SUMMARY DESCRIPTION**

Under direction, leads, oversees, and participates in the more complex and difficult work of staff responsible for maintaining, repairing and installing a variety of wastewater treatment plant equipment, machinery and related facilities; provides training to less experienced Plant Maintenance Technicians; oversees and participates in special projects; maintains a variety of records and performs a variety of technical tasks relative to assigned areas of responsibility.

### **DISTINGUISHING CHARACTERISTICS**

This is the advanced journey level class in the Plant Maintenance Technician series. Positions at this level are distinguished from other classes within the series by the level of responsibility assumed and the complexity of duties assigned. Employees in this class perform the most difficult and responsible types of duties assigned within the series including performing lead responsibilities in the installation and maintenance of complex treatment plant equipment and machinery. Employees at this level are required to be fully trained in all procedures related to assigned area of responsibility.

### **REPRESENTATIVE DUTIES**

*The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.*

1. Lead, plan, train and review the work of staff responsible for maintaining, repairing and installing a variety of wastewater treatment plant equipment, machinery and related facilities.
2. Train assigned employees in maintenance methods and techniques, and in the set-up and use of equipment.
3. Diagnose, troubleshoot, update and repair malfunctioning equipment; perform maintenance, repair, and overhaul activities on treatment process equipment including aeration blowers, barminutors, pumps and motors, compressors, belt presses, valves, drive units, hydraulic control units, chlorinators, chemical feeders, pneumatic equipment and hydraulic pressure systems.
4. Perform mechanical, electrical, welding, machining, millwright, or pipefitting maintenance activities on equipment including lubrication, inspection, and replacement of parts.
5. Lead and participate in the installation of equipment; make modifications to equipment for maximum treatment process performance.
6. Weld and machine fabricate parts and equipment for plant systems.
7. Implement a preventive maintenance program for wastewater equipment; identify and coordinate equipment maintenance needs; keep up-to-date records for replaced or added equipment.
8. Maintain efficient records on operations and activities; prepare a variety of reports on data; generate records of repairs and maintenance as necessary.

9. Ensure the adherence to safe work practices and procedures including using lock out/tag out procedures and confined space rules and regulations.
10. Interpret drawings, blueprints, schematics and diagrams for wastewater systems.
11. Operate a variety of heavy equipment including loaders, backhoe, bull dozers, cranes, forklifts, and graders as necessary.
12. Assist with maintenance of the SCADA system and instrumentation as necessary.
13. Oversee and participate in special projects as assigned.
14. Assist operations and line maintenance staff with preventative and emergency maintenance, troubleshooting, and emergency repairs as necessary.
15. As assigned, research and analyze maintenance practices, assist in revising technical documents and internal procedure manuals, and assist in the preparation and compilation of data.
16. As assigned, oversee and set-up work assignments for community service workers assigned to the plant by the courts.
17. Requisition materials and supplies for system requirements; work with vendors on material selection and purchase; maintain supply inventory.
18. Estimate time, materials, and equipment required for jobs assigned; requisition materials as required.
19. Perform related duties as required.

### **QUALIFICATIONS**

*The following generally describes the knowledge and ability required to enter the job and/or be learned within a short period of time in order to successfully perform the assigned duties.*

#### **Knowledge of:**

Operations, services, and activities of wastewater treatment plant maintenance program.  
Principles of lead supervision and training.  
Methods and techniques of maintaining and repairing wastewater treatment plant equipment, machinery and related facilities.  
Lubricants used in plant equipment.  
Electrical codes.  
Fundamentals of pipefitting and fabrication.  
Programmable logic controls, telemetry units and fiber optics.  
Operational characteristics of maintenance equipment and tools.  
Metering and measuring devices related to wastewater.  
Mathematic principles and practices.  
Occupational hazards and standard safety practices.  
Applicable federal, state and local codes, laws, ordinances and regulations.  
Office procedures, methods, and equipment including computers and applicable software applications.

#### **Ability to:**

Lead and train staff in the area of work assigned.  
Independently perform the most difficult installation, maintenance and repair activities related to wastewater treatment plant equipment.

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Use and maintain safety equipment.  
Fabricate parts and equipment by welding and machining.  
Interpret, explain, and enforce departmental policies and procedures.  
Create, explain and impose standard maintenance procedures.  
Operate a variety of maintenance equipment in a safe and effective manner.  
Read, interpret and understand technical manuals, blueprints, drawings, and diagrams.  
Work with Self-Contained Breathing Apparatus (SCBA).  
Diagnose, troubleshoot, update and repair malfunctioning equipment.  
Troubleshoot and repair instrumentation and electrical equipment.  
Coordinate, schedule and work with outside contractors.  
Be available to respond to weekend and after-hours emergency maintenance needs.  
Operate office equipment including computers and supporting software applications.  
Adapt to changing technologies and learn functionality of new equipment and systems.  
Maintain detailed records and prepare clear and concise reports.  
Communicate clearly and concisely, both orally and in writing.  
Establish and maintain effective working relationships with those contacted in the course of work.

**Education and Experience Guidelines** - Any combination of education and experience that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

**Education/Training:**

Equivalent to the completion of the twelfth grade supplemented by specialized training in the mechanical trades.

**Experience:**

Three years of increasingly responsible experience in the maintenance and repair of wastewater treatment plant equipment.

**PHYSICAL DEMANDS AND WORKING ENVIRONMENT**

*The conditions herein are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.*

**Environment:** Wastewater treatment plant environment; exposure to noise, dust, grease, smoke, fumes, gases, oils, toxic chemicals, and inclement weather conditions; work with water or in confined spaces.

**Physical:** Sufficient physical ability to perform moderate to heavy lifting and carrying; reaching, kneeling, crawling, climbing; standing for prolonged periods of time.

**Vision:** See in the normal visual range with or without correction; vision sufficient to read computer screens and printed documents and to operate equipment.

**Hearing:** Hear in the normal audio range with or without correction.

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Johnson & Associates

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