



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

## SURVEYING AND MAPPING TECHNICIAN I

<b>Group-Section:</b> Engineering Services Group	<b>FLSA Status:</b> Non-Exempt <b>Bargaining Unit:</b> AFSCME	<b>Salary Grade:</b> 36 <b>Job#:</b> XA51A
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### JOB SUMMARY

This is the entry level position performing Surveying and Mapping Technician I job duties.

### DISTINGUISHING CHARACTERISTICS

Positions at this level learn to apply basic skills in procedures, operations, techniques, tools, materials and equipment appropriate to area of specialization; work assignments are routine in nature, requiring limited judgment and decision making. Specific and detailed guidelines covering all aspects of the assignment are provided; work is in strict adherence to the guidelines; deviations must be authorized. The work consists of tasks that are clear-cut and directly related.

### OVERSIGHT

**Supervision Received:** For both one-of-a-kind and repetitive tasks the supervisor makes specific assignments that are accompanied by clear, detailed, and specific instructions. The employee works as instructed and consults with the supervisor as needed on all matters not specifically covered in the original instructions or guidelines. For all positions, the work is closely controlled. For some positions, the control is through the structured nature of the work itself; for others, it may be controlled by the circumstances in which it is performed. In some situations, the supervisor maintains control through review of the work, which may include checking progress or reviewing completed work for accuracy, adequacy, and adherence to instructions and established procedures.

**Supervision Given:** None

### JOB DUTIES

1. Learns and assists with analyzing data, interpreting results, and using electronic field survey equipment and software.
2. Learns and assists with survey projects, researching technical information, and ensuring specifications and standards are met.
3. Learns and assists with preparing records of survey maps, legal descriptions, exhibit maps, topographic mapping, and deformation-monitoring reports.
4. Learns and assists with preparing digital terrain modeling, Geographic Information Systems mapping, and geospatial analyses.
5. Learns and assists with survey measurements, calculations, and field notes for mapping, design, and construction projects.
6. Learns and assists with design, installation and maintenance of automated monitoring systems.
7. Learns and assists with performing site inspections.

8. Performs other related Surveying and Mapping Technician job duties as required.

## **EMPLOYMENT STANDARDS**

### **MINIMUM QUALIFICATIONS**

**Education and Experience:** A high school diploma or general education test (GED) and two years of progressively increasing responsibility work experience in field and/or office survey work; or Associate's degree from an accredited college or university.

**Required Knowledge of:** Survey principles and practices; and current office technology and equipment.

**Required Skills and Abilities to:** Read and interpret maps and diagrams; use a variety of business and survey applications and equipment; problem solve; prioritize and multi-task; communicate clearly and concisely, both verbally and in writing; establish and maintain effective working relationships with those contacted in the course of work; work independently and in a team environment; and operate current office equipment including computers and supporting applications.

### **CERTIFICATES, LICENSES, AND REGISTRATIONS REQUIREMENTS**

Employees in this position may be required to obtain and maintain the following certifications, licensing and registrations:

#### **Certificates**

- None

#### **Licenses**

- Valid California Class C Driver License that allows you to drive in the course of your employment

#### **Registrations**

- None

### **PHYSICAL DEMANDS, WORK ENVIRONMENT, AND VISION REQUIREMENTS**

The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the job duties of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the job duties.

**Physical Demands:** The work requires some physical exertion such as long periods of standing; walking over rough, uneven, or rocky surfaces; recurring bending, crouching, stooping, stretching, reaching, or similar activities; recurring lifting of moderately heavy items such as personal computers and record boxes. The work may require specific, but common, physical characteristics and abilities such as above-average agility and dexterity.

**Work Environment:** The work involves moderate risks or discomforts that require special safety precautions, e.g., working around moving parts, carts, or machines, or irritant chemicals; etc. Employees may be required to use protective clothing or gear such as masks, gowns, coats, boots, goggles, gloves, or shields.

**Vision Requirements:** No special vision requirements

Job Title: Surveying and Mapping Technician I

Job Code: XA51A

Adopted: 03/11/13

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