

POSITION DUTY STATEMENT

PM-0924 (REV 01/2022)

CLASSIFICATION TITLE Transportation Engineer Tech	OFFICE/BRANCH/SECTION District 5 Construction 501	
WORKING TITLE Assistant Resident Engineering Technician	POSITION NUMBER 905-501-3175-xxx	REVISION DATE 04/04/2024

As a valued member of the Caltrans leadership team, you make it possible for the Department to provide a safe and reliable transportation network that serves all people and respects the environment.

GENERAL STATEMENT:

Under the supervision of the Area Construction Engineer a Senior Transportation Engineer and with direction from the lead Resident Engineer, incumbent performs various technical field and office tasks of average difficulty relating to transportation construction.

CORE COMPETENCIES:

As a Transportation Engineer Tech, the incumbent is expected to become proficient in the following competencies as described below in order to successfully perform the essential functions of the job, while adhering to and promoting the Department's Mission, Vision, Values, Strategic Imperatives and Goals. Effective development of the identified Core Competencies fosters the advancement of the following Leadership Competencies: Change Commitment, Risk Appetite, Self-Development/Growth, Conflict Management, Relationship Building, Organizational Awareness, Communication, Strategic Perspective, and Results Driven.

- **Flexibility and Managing Uncertainty** : Adjusts thinking and behavior in order to adapt to changes in the job and work environment. (Cultivate Excellence - Engagement, Innovation)
- **Dealing with Ambiguity (Risk)**: Can comfortably handle risk and uncertainty, as well as make decisions to act without having the total picture. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Integrity)
- **Ethics and Integrity**: Demonstrated concern to be perceived as responsible, reliable, and trustworthy. Respects the confidentiality of information or concern shared by others. Honest and forthright. Conforms to accepted standards of conduct. (Strengthen Stewardship and Drive Efficiency - Engagement)
- **Problem-solving and Decision-making** : Identifies problems and uses logical analysis to find information, understand causes, and evaluate and select or recommend best possible courses of action. (Cultivate Excellence - Engagement, Integrity)
- **Relationship Building**: The ability to develop and maintain internal and external trust and professional relationships, which includes listening and understanding to build rapport. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Engagement)
- **Customer Focus**: Considers, prioritizes, and takes action on the needs of both internal and external customers. (Strengthen Stewardship and Drive Efficiency - Engagement)
- **Communication**: Expresses oneself clearly in all forms of communication. Gives feedback and is receptive to feedback received. Knows that listening is essential. Keeps others in the Division and other functional units informed as appropriate. (Strengthen Stewardship and Drive Efficiency - Engagement)
- **Analytical Skills**: Approaches problems using a logical, systematic, and sequential approach. Weighs priorities and recognizes underlying issues. (Cultivate Excellence - Engagement)
- **Thoroughness**: Ensures that work and information is complete and accurate. Ensures that assignment goals, objectives, and completion dates are met. Documents and reports on work progress. (Cultivate Excellence, Strengthen Stewardship and Drive Efficiency - Integrity)

TYPICAL DUTIES:

Percentage	Job Description
Essential (E)/Marginal (M) ¹	
25% E	Collecting samples of construction materials such as concrete, asphalt, soil, aggregates, etc., from the project site. These samples are typically taken for testing purposes to ensure they meet required standards and specifications. Collaborating with contractors and their personnel to ensure smooth execution of construction activities.

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25%	E	Conducting both project field and production plant inspections to ensure construction projects adhere to plans and specifications. Assessing the quality of construction work, including quantity and methodology, to ensure standards are met. Advising the Resident Engineer of any issues or situations encountered on project sites, facilitating timely resolution. Documenting manpower and equipment usage, along with other pertinent details, to track progress and resources. Preparing comprehensive documentation of work performed, including daily reports, utilizing approved technology. Inspecting finished products, calculating units completed for payment, and ensuring contractor compliance with safety orders.
25%	E	Conducting various tests on collected samples in accordance with standard procedures. This could involve tests to assess the strength, durability, composition, or other properties of the materials being used in construction.
15%	E	Gathering relevant data related to engineering aspects of the project. This could include measurements, specifications, or other technical details necessary for analysis and decision-making by the Resident Engineer or project team.
10%	M	Supporting the Resident Engineer in various office tasks related to construction project management. This may include: drafting change orders, assisting in contract cost estimating including materials, labor, and equipment, and creation of various documents and reports necessary for construction project administration.

¹ESSENTIAL FUNCTIONS are the core duties of the position that cannot be reassigned.

MARGINAL FUNCTIONS are the minor tasks of the position that can be assigned to others.

SUPERVISION OR GUIDANCE EXERCISED OVER OTHERS

None. May serve as a lead for functional guidance in training and assisting less experienced employees.

KNOWLEDGE, ABILITIES, AND ANALYTICAL REQUIREMENTS

Must have knowledge of methods, materials, tools, manuals, and equipment used in highway and bridge construction and maintenance work; methods of proportioning and handling portland cement concrete and bituminous surfacing materials and the handling of asphaltic oils and emulsions; highway grading, construction and maintenance; conventional state-of-the-art computer applications to transportation engineering work.

Must have the ability to make accurate mathematical calculations; make sound decisions in the implementation of contract plans, specifications and various engineering activities; evaluate work methods and traffic conditions closely, both before and during the work, to assure safety; analyze situations regarding operational features and design concepts; demonstrate the potential to assume progressive technician journey level responsibility; organize/arrange data to produce effective work products without repetitious direction; and possess interpersonal skills necessary to be an effective team member.

Ability to: Inspect construction work and enforce compliance with plans and specifications; analyze situations accurately and take effective action; prepare reports. Computer experience preferred. Must have the ability to evaluate work methods and traffic conditions closely, both before and during the work, to assure safety.

RESPONSIBILITY FOR DECISIONS AND CONSEQUENCES OF ERROR

Failure to understand and failure to incorporate appropriate standards, requirements and policies into work product may result in expensive waste of time and materials, cause additional work and project delays, and could result in excessive construction contract claims. Improper performance of duties and/or failure to adhere to established policies, procedures and guidelines could lead to adverse action and possible termination.

PUBLIC AND INTERNAL CONTACTS

Incumbent must be able to communicate effectively with others including Department staff, technical/professional level staff of outside agencies, contractor's personnel and members of the public regarding construction projects.

PHYSICAL, MENTAL, AND EMOTIONAL REQUIREMENTS

Must possess the ability to work outdoors in cold and hot weather. Must possess the ability to work on uneven ground, climb, lift, carry, bend, squat, kneel, crouch, reach, pull, push, grasp, sit, stoop, crawl, and repetitive use of extremities. Must possess the ability to transport variety of objects that are less or equal to 50 pounds. Ability to work indoors under artificial light.

The workload is subject to frequent, substantial, and unexpected changes. Ability to travel. Overtime and/or flexible hours may be required. Must be able to organize and prioritize. Must be able to concentrate, formulate effective strategies, be multi-tasked, adapt to changes in priorities, and complete task or projects with short notice. Ability to resolve emotionally charged issues reasonably and diplomatically. Must be able to develop and maintain cooperative working relationships. Positive attitude is important.

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WORK ENVIRONMENT

Job will have exposure to lab work, night work, fog, field work, earthwork, paving operations, weather conditions, equipment, machinery, lab conditions, heat, cold, dust, gas, fumes, outdoor conditions, indoor conditions, humidity, and high decibels of noise. Hard hat and safety vest or approved safety shirt must be worn at all times in the field, no exceptions. While at the Construction office employees will normally work in a climate-controlled office under artificial light. However due to periodic problems with the heating and air conditioning, the building temperature may fluctuate. Incumbent may be required to participate in the rotation program.

Workload may subject employee to frequent night work, changes of shift, frequent changes of work hours and workdays, and geographic transfer. Travel is required. Possession of a valid California driver's license is required when operating a state owned or leased vehicle. Vacations maybe restricted during peak times. Overtime may be required. Incumbent will be expected to have an in-office presence, this position does not allow for telework.

Incumbent is responsible for his/her actions, decisions, quality of work, and proper use of State time, equipment and materials.

I have read, understand and can perform the duties listed above. (If you believe you may require reasonable accommodation, please discuss this with your hiring supervisor. If you are unsure whether you require reasonable accommodation, inform the hiring supervisor who will discuss your concerns with the Reasonable Accommodation Coordinator.)

EMPLOYEE (Print)

EMPLOYEE (Signature)

DATE

I have discussed the duties with, and provided a copy of this duty statement to the employee named above.

SUPERVISOR (Print)

SUPERVISOR (Signature)

DATE