

# Senior Transportation Engineer, Caltrans

## California State Personnel Board Specification

- **Schematic Code:** GJ70
- **Class Code:** 3161
- **Established:** 01/09/1931
- **Revised:** 04/21/1992
- **Title Changed:** 10/02/1974

### Definition

Under general direction, (1) as a first line supervisor to have charge of varied and difficult transportation engineering work in the field or office involving the supervision of engineers and others engaged in transportation development activities; or (2) in a specialist capacity, to perform other difficult and complex engineering work relating to specialized transportation projects, research studies, planning and operations of transportation systems; or (3) provide technical oversight of consultants or local agency staff performing engineering work related to the development of State transportation projects; and to do other related work.

### Typical Tasks

In a district, plans, assigns, and checks work, gives instructions and assistance, maintains discipline, makes decisions and handles difficult technical and administrative problems in connection with directing the work of engineers and others; provides technical oversight of consultants performing engineering work under contract with the Department; manages engineering contracts between the Department and private engineering firms; provides technical oversight of consultants or local agency staff performing engineering work related to the development of State transportation projects funded by local agencies or private entities; supervises the preparation of designs, plans, quantities, specifications and construction drawings for transportation projects; as a project manager, ensures that assigned projects are completed within scope, cost, schedule, budgeted resources, and departmental standards and practices; makes original investigations in connection with the preparation of unusual or complicated designs; acts as a resident engineer on large, complex or equivalent multiple construction projects; supervises the preparation of planning and traffic studies and investigations, including transportation surveys, road inventories, and traffic accident investigations; supervises the preparation of progress and final estimates; supervises the preparation of investigations and economic studies of alternative transportation facility routing; supervises transportation operational or maintenance engineering units; supervises the preparation of environmental reports, assessment reports of surveys and investigations, investigation of hazardous materials and appropriate mitigation and other comprehensive reports and investigations; supervises the preparation of transportation and encroachment permits; develops personnel requirements and monitors use of personnel in meeting engineering project and operations schedules; presents information to the public on transportation engineering matters; represents the Department of Transportation at meetings; prepares correspondence and reports.

In headquarters, assigns work, gives instructions, and handles difficult problems in connection with the direction of the work of engineers and others; as a representative of headquarters, confers with engineers in districts and others relative to the details of work planned or performed in a district; makes special reports and investigations; develops and recommends changes in policies, programs, standards and concepts.

May act in a specialist capacity and perform difficult and complex work on specialized engineering projects or research studies.

### Minimum Qualifications

Possession of a valid certificate of registration as a civil engineer issued by the California State Board of Registration for Professional Engineers. and Either I One year of transportation engineering experience in the California state service performing duties comparable to those of an associate level engineer or Transportation Engineer (Civil), Range D.

## OR II

Broad and extensive (more than five years) transportation engineering experience, two years of which are equivalent in responsibility to that of an associate level engineer or Transportation Engineer (Civil), Range D, in the California state service.

### **Knowledge and Abilities**

Knowledge of: Various phases of transportation engineering, including planning processes and methods, systems planning, evaluation of alternatives, and facility locations and design, construction, operation and maintenance; transportation economics and financing; project management concepts; factors which influence the impact of transportation facilities on the environment, the community and the economy; principles and techniques of personnel management and supervision; Department's Affirmative Action Program objectives; a supervisor's role in affirmative action, health and safety and labor relations programs and the processes available to meet their objectives.

Ability to: Plan and direct the work of others; analyze situations accurately and adopt an effective course of action; make effective presentations; prepare correspondence and reports; communicate effectively; effectively contribute to the Department's affirmative action objectives.

Updated 6/3/2012