



TRANSPORTATION ENGINEER (CIVIL)

Departmental Open

Exam Code: 0TR41

Department: Caltrans

Bulletin Release Date: 09/21/2009

Cut-off Date: Continuous

Salary: Range A: \$5,327.00 to \$6,352.00

Range B: \$6,100.00 to \$7,632.00

Range C: \$7,055.00 to \$8,827.00

Range D: \$7,974.00 to \$9,978.00

INTRODUCTION

Caltrans is pleased to announce the posting of the **Transportation Engineer (Civil)** examination. Employment from this examination may be offered in all Districts and Sacramento County.

Testing locations may not be located in all areas. Candidates may be asked to travel to the nearest testing facility at their own expense.

EQUAL EMPLOYMENT OPPORTUNITY

Caltrans is an equal opportunity employer to all, without regard to race, religious creed, color, national origin, ancestry, age, disability (physical or mental), medical condition (cancer and genetic characteristics), genetic information, marital status, sex (including pregnancy, childbirth, or related medical condition), gender, gender identity, gender expression, sexual orientation, political affiliation, or military and veteran status.

DRUG FREE STATEMENT

It is an objective of the State of California to achieve a drug-free work place. All applicants will be expected to behave in accordance with this objective, as the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.

WHO SHOULD APPLY?

Candidates who meet the minimum qualifications as stated on this announcement may apply for this examination.

Once you have list eligibility, you may not reapply for twelve (12) months from your eligibility date. **Candidates that are unsuccessful in the examination must wait six (6) months from the testing date before reapplying to take the examination.**

FILING INSTRUCTIONS

If you meet the Minimum Qualifications under Pattern II you are required to submit:

1) [Standard State Application \(STD. 678\)](#), 2) a copy of your transcripts, and 3) an evaluation of your transcripts from a member of the NACES (if applicable) to apply to take the written examination to the address below:

Applications (STD 678) must be received or postmarked no later than the cut-off date. Dates printed on Mobile Bar Codes, such as the Quick Response (QR) Codes available at the USPS, are not considered Postmark dates for the purpose of determining timely filing of an application.

Faxed or E-mailed applications will NOT be accepted. Applications postmarked after the cut-off date, personally delivered, or received via interoffice mail after 5:00 p.m. on the cut-off date will be held for the next administration of the examination. THE EXAMINATION TITLE MUST BE INDICATED ON THE APPLICATION.

MAILING ADDRESS:

**Caltrans
Examination Services (MS 86)
P.O. Box 168036
Sacramento, CA 95816-8036**

SUBMIT IN PERSON:

**Caltrans
Examination Services (MS 86)
1727 30th Street, 1st Floor
Sacramento, CA 95816**

***Candidates are responsible for obtaining proof of mailing or submission of their application to Examination Services.**

SPECIAL TESTING ARRANGEMENTS

If you have a disability and wish to participate in one of our testing services, programs, or activities and require a specific accommodation, please mark the appropriate box for Question #2 on the Examination Application form STD678. You will be contacted to make specific arrangements.

POSITION STATEMENT

A Transportation Engineer (Civil) performs engineering work involving plans, designs, details, and maintenance of transportation systems, in whole or in part, that may include

land, rail, freeways, roads, airports, ramps, hydraulics, sanitary facilities, bridges, non-standard major structures or transportation-related building and other structures; makes layouts, assembles specifications; reviews or assists in reviewing project proposals, plans and specifications prepared by others; acts as resident engineer on small to medium-sized construction projects; works up special provisions and contract estimates; keeps or assists in keeping the necessary records pertaining to construction progress, jobs expenditures, budget programs, and work order balances; confers with contractors regarding compliance with plans and quality of work and construction activity; selects and/or uses computer-based processes to compile engineering data, horizontal and vertical alignments and curve computations; develops or assists in the development or maintenance of transportation-related state-of-the-art computer programs and procedures; makes or revises maps, charts, and diagrams; uses project management systems to budget personnel and set milestones for transportation projects; makes field investigations of and for laboratory analysis of materials being used in construction transportation and public works research projects; makes controlled tests and checks performance of construction materials, soils, aggregates, cement, asphalt, concrete, and other materials incorporated in bridges, non-standard major structures, or transportation-related buildings; evaluates, or assists in evaluating, damage for all types of transportation facilities, including bridges and other non-standard major structures; makes in-plant investigations and makes recommendations regarding materials, plant design and operations; may use underwater diving equipment to make underwater quality control and structure investigations; performs transportation operational, traffic operations, planning, or maintenance engineering tasks; prepares and presents information to the public about all types of transportation engineering matters; tests for and prepares environmental reports, assessment reports of transportation surveys, investigations and analysis statements, and air and water quality reports; assists a registered engineer in performing professional engineering work; may lead other engineering and technical personnel.

ELIGIBLE LIST INFORMATION

A Departmental Open statewide eligible list will be established for Caltrans in all Districts, and Sacramento County. The names of successful competitors will be merged onto the list in order of final scores, regardless of date. Competitor's eligibility will expire 12 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.

REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION

All applicants must meet the education and/or experience requirements for this examination by the cut-off date. Your signature on the application indicates that you read, understand, and possess the minimum qualifications required, and that the information provided is true and complete to the best of your knowledge.

Click on the link below to review the California State Personnel Board class specification which contain the requirements for admittance to the exam:

<http://calhr.ca.gov/state-hr-professionals/pages/3135.aspx>

All applications must include: “to” and “from” dates (month/day/year), time base, civil service or private sector titles, the duties performed, and an original signature. Applications received without this information will be rejected.

NOTE: Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as “Either I,” “or II,” “or III,” etc. For example, candidates who possess qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirements.

It is your responsibility to make sure you meet the education and/or experience requirements stated below.

Graduates in civil engineering from a non-ABET accredited college or university will be required to pass a written test prior to taking the online examination.

If you have any questions concerning how to take the written test, please contact Department of Transportation at (916) 227-5181.

MINIMUM QUALIFICATIONS

EITHER I

Graduation from a four-year curriculum in civil engineering accredited by the Accreditation Board for Engineering Technology (ABET). (Registration as a senior in such a curriculum will admit an applicant to the competition, but she/he must produce evidence of graduation before she/he will be considered eligible for appointment.) (Possession of a valid certificate as an Engineer-in-Training issued by the California State Board of Registration for Professional Engineers and Land Surveyors, or issued by another jurisdiction and accepted by the California Board in lieu of the first division of the examination as an engineer may be substituted for the required education.)

OR II

Possession of equivalent qualifications may be demonstrated by graduation from an engineering curriculum which includes the basic engineering courses normally covered in a standard four-year engineering curriculum, and by qualifying in a written examination covering basic engineering. (Registration as a senior in such a curriculum will admit an applicant to the qualifying examination, but she/he must produce evidence of graduation before she/he will be considered eligible for appointment.)

OR III

A master’s or doctorate degree in a civil engineering curriculum from a college or university that has a baccalaureate degree program in civil engineering curriculum which is accredited by the Accreditation Board of Engineering Technology (ABET).

(Registration as a candidate in such a curriculum will admit an applicant to the competition but she/he must produce evidence of graduation before she/he will be considered eligible for appointment.)

EXAMINATION INFORMATION

This examination will consist of a Training and Experience Evaluation weighted 100%. In order to obtain a position on the eligible list, a minimum score of 70% must be attained.

All candidates will be required to complete a Training and Experience Evaluation. The Evaluation is designed to elicit specific information regarding each candidates' training and experience relevant to the Transportation Engineer (Civil) classification. The information on the Training and Experience Evaluation will be completely assessed based on pre-determined rating criteria.

The Training and Experience Evaluation measures the following areas determined to be important for success on the job: **Computer Skills, Interpersonal Skills, Visual/Technical Skills, Communication Skills and Project Leadership Skills.**

In addition, there are questions regarding work experience in jobs similar to Transportation Engineer (Civil), personal characteristics, and work performance.

To preview the Transportation Engineer (Civil) Training and Experience Evaluation, select the link below:

[Transportation Engineer \(Civil\) preview evaluation.](#)

KNOWLEDGE AND ABILITIES

Knowledge of:

1. Basic principles of physics, chemistry, and mathematics as applied to civil engineering
2. Engineering surveying
3. Hydrology and hydraulics
4. Stress analysis
5. Mechanics
6. Strength of materials
7. Properties and uses of engineering construction materials
8. Methods and equipment of engineering construction
9. Engineering economics

Ability to:

1. Do simple mapping and drafting and make neat and accurate computations and engineering notes
2. Prepare reports
3. Establish and maintain friendly and cooperative relations with those contacted in the course of the work

4. Communicate effectively

VETERANS' PREFERENCE

Veterans' Preference will be applied to those competitors who are successful in this examination and who qualify for, and have requested, Veterans' Preference through the California Department of Human Resources. Veterans who have achieved permanent civil service status are not eligible to receive Veterans' Preference.

Effective January 1, 2014, in accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, widow or widower of a veteran, or spouse of a 100 percent-disabled veteran achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligibility list. This section shall not apply to any veteran who has been dishonorably discharged or released.

CAREER CREDITS

Career Credits will not be added to the final score of this examination.

CONTACT INFORMATION

If you have questions concerning this examination bulletin, please contact CalHR:

California Department of Human Resources
Selection Division, Exam Services
1515 "S" Street, North Building, Suite 400
Sacramento, CA 95811
(866) 844-8671

If you have questions regarding the written examination, please contact the Caltrans Exam Analyst at (916) 227-5181.

GENERAL INFORMATION

For an examination with a written feature, it is the candidate's responsibility to contact **the testing department** three days prior to the written test date if he/she has not received his/her notice to appear.

Examination Locations: When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant.

However, locations of interviews or performance evaluations may be limited or extended as conditions warrant.

Applications are available at <https://jobs.ca.gov/pdf/std678.pdf>, California Department of Human Resources (CalHR) offices, and local offices of the Employment Development Department.

If you meet the requirements stated on this bulletin, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. Your performance in the examination will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

Caltrans reserves the right to revise the examination plan to better meet the needs of the service, if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all competitors will be notified.

Candidates needing special testing arrangements due to a disability must mark the appropriate box on the application and/or contact the testing department.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and the ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) service-wide promotional, 5) departmental open, 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

Veterans' Preference: Pursuant to Assembly Bill 372, Veterans' Preference will be awarded as follows, starting January 1, 2014:

1. Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an open examination, shall be ranked in the top rank of the resulting eligibility list.
2. Any veteran who has been dishonorably discharged or released is not eligible for Veterans' Preference.
3. Veterans' Preference is not granted once a person achieves permanent civil service status (Permanent State civil service status means the status of an employee who is lawfully retained in his/her position after completion of the

applicable probationary period. This includes permanent intermittent, part-time, and full-time appointments. In addition, individuals who at any time achieved permanent State civil service status and subsequently resigned or were dismissed from State civil service are not eligible to receive Veterans' Preference).

Veteran status is verified by the California Department of Human Resources (CalHR). Directions to apply for Veterans' Preference are on the Veterans' Preference Application (CalHR Form 1093) which is available at <https://jobs.ca.gov/Public/Jobs/Veterans.aspx>, CalHR, and the Department of Veterans Affairs.

TTY is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TTY Device.

For individuals with disabilities, this document may be available upon request in alternate formats. To obtain an alternate format, please call or write to Caltrans, Office of Examinations & Executive Selection Services, P.O. Box 168036, MS 86, Sacramento, CA 95816. Voice (916) 227-7858 California Relay Service: Voice 1-800-735-2922 or TTY 1-800-734-2929.

TAKING THE EXAM

When you click the link below, you will be directed to the Training and Experience Evaluation. At the end of the Training and Experience Evaluation, it will be instantly scored when you click "Score My Exam.

***Please remember to print a copy of your exam results for your records. It may take up to 5 business days for eligibility records to appear in your CalCareer profile.**

[Click here to go to the Training and Experience Evaluation for Transportation Engineer \(Civil\).](#)