



CALTRANS HEAVY EQUIPMENT MECHANIC

Exam Code: 2TR99

Department: Department of Transportation (Caltrans)

Exam Type: Departmental, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Caltrans Heavy Equipment Mechanic – \$5,236.00 - \$6,035.00 per month

View the [Caltrans Heavy Equipment Mechanic classification specification](#)

APPLICATION INSTRUCTIONS

Final Filing Date: Continuous

Who Should Apply:

Applicants who meet the minimum qualifications as stated on this bulletin may apply for and take this examination.

Once you have taken this examination, you may not retake it for **12** months.

How To Apply:

The link to connect to the Training and Experience Evaluation is located farther down on this bulletin in the “Taking the Exam” section. **Special Testing Arrangements:** If you require assistance or alternative testing arrangements due to a disability, please contact the testing department listed in the Contact Information section of this bulletin.

MINIMUM QUALIFICATIONS

All applicants must meet the education and/or experience requirements as stated on this exam bulletin to be accepted into the examination. Part-time or full-time jobs, regardless of whether paid or volunteer positions, and inside or outside California state service will count toward experience.

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Possession of a valid Class C driver license. (Applicants who do not possess the license will be allowed to compete in the examination, but the license must be obtained prior to appointment.) and

Either 1

Completion of a recognized apprenticeship as a gas-and diesel-powered truck mechanic, or a heavy construction equipment mechanic. (Apprentices who are within six months of completing their apprenticeship program may be admitted to the examination, but they must present evidence of completion of a recognized apprenticeship before they may be appointed.)

Or 2

Four years of varied mechanical experience consisting of diagnosis, repair and overhaul of major components on gas-and diesel-powered trucks or heavy construction equipment. An Associate of Arts Degree in Heavy Equipment Maintenance, Diesel Mechanics, or Heavy Equipment Mechanics or a certificate of completion from an accredited community college or equivalent degree or certificate approved by the California Superintendent of Public Instruction under the provisions of California Education Code Section 94310 may be substituted for two years of the required experience. (Students who are within six months of completing their degree will be admitted to the examination but must present evidence of completion prior to appointment.)

POSITION DESCRIPTION

Caltrans Heavy Equipment Mechanic

Under direction, an incumbent inspects equipment to locate and determine the extent of necessary repairs and the corrective action necessary; maintains and repairs automobiles, trucks, tractors, personnel hoists, graders, snowplows, pumps, air compressors, diesel and gasoline engines and similar equipment; constructs new special equipment or modifies existing equipment including body frames and running gear; makes installation of, or repairs to, special equipment; operates and maintains tools and machinery used in the repair and maintenance of heavy maintenance and construction equipment; advises in the selection of parts and equipment; estimates repair costs; instructs operators in the proper operation and servicing of equipment; performs welding and brazing work; keeps simple records and completes reports; uses computer equipment to input time spent and tasks performed; may assist in instructing or giving direction to helpers, apprentices, Service Assistants (Automotive), or other employees; and performs other related work.

EXAMINATION SCOPE

This examination consists of the following components:

Bulletin Date: 11/17/2023

Training and Experience Evaluation – Weighted 100% of the final score.

The examination consists solely of a **Training and Experience Evaluation**. To obtain a position on the eligible list, a minimum score of 70% must be received. Applicants will receive their score upon completion of the Training and Experience Evaluation process.

In addition to evaluating applicants' relative knowledge, skills, and ability, as demonstrated by quality and breadth of education and/or experience, emphasis in each exam component will be measuring competitively, relative job demands, each applicant's:

Knowledge of:

1. Diagnostic methods and systems (e.g., steering, suspension systems, transmissions, brakes, hydraulics, fuels, ignitions, emission controls, cooling and air conditioning) used in the construction, assembly, overhaul, repair, and adjustment of gas- and diesel-powered equipment and highway construction and maintenance equipment
2. Repair methods (e.g., steering, suspension systems, transmission, brake, hydraulic, fuel, ignition, emission control, cooling and air conditioning) used in the construction, assembly, overhaul, repair, and adjustment of gas- and diesel-powered equipment (e.g., buses, automobiles/trucks) and highway construction and maintenance equipment to ensure the maintenance and safe operation of equipment
3. Preventive maintenance methods and systems (e.g., steering, suspensions, transmissions, brakes, hydraulics, fuels, ignitions, emission controls, cooling and air conditioning) used in the construction, assembly, overhaul, repair, and adjustment of gas and diesel-powered equipment and highway maintenance and construction equipment to ensure the maintenance and safe operation of equipment
4. The procedures to jack, crib, and suspend highway equipment in compliance with maintenance plans, departmental codes of safe practices and the State and Federal Occupation Safety and Health Administration (OSHA)
5. The operation and diagnosis of computerized vehicle management systems (e.g., antilock brakes, engines, transmissions, controls) and use of diagnostic tools (e.g., scanners, laptops, meters, digital volt ohm meter used in the construction and maintenance of highways
6. The proper care, accountability and usage of equipment and electronic and computerized tools (e.g., hand, pneumatic, hydraulic) used for diagnostic, preventive maintenance, repair, construction, assembly, overhaul, and adjustment of all gas- and diesel-powered equipment (e.g., buses, automobiles/trucks), highway maintenance and construction equipment to ensure the maintenance and safe operation of equipment

7. Safety regulations and practices (e.g., Department of Transportation (DOT) Division of Equipment's (DOE) Code of Safe Practices, Material and Safety Data Sheets (MSDS), Operators Manuals, Injury and Illness Prevention Programs, California Vehicle Code: Title 13) to protect and maintain the safety of persons and property
8. Materials (e.g., fuel, oils, filters, metals, cleaning chemicals/solvents, welding rods, replacement parts) used for preventive maintenance and repair, construction, assembly, overhaul, and adjustment of gas- and diesel-powered equipment (e.g., buses, automobiles/trucks) and highway maintenance and construction equipment to ensure safe operating and well-maintained equipment
9. Highway maintenance and construction equipment and vehicle construction and repair (e.g., identification of component parts, collision repair techniques, frame repairs, and painting and refinishing applications)
10. Metal welding, fabricating, and cutting techniques and processes for various equipment and systems (e.g., highway maintenance and construction equipment, marine vessels, gas and diesel-powered and alternative-fuel automobiles and trucks, and electronic systems) in compliance with departmental codes of safe practices and the State and federal Occupation Safety and Health Administration (OSHA) **Ability to:**
 1. Use advanced electronic and computerized diagnostic equipment (e.g., scanners, laptops, meters, digital volt ohm meters for the diagnosis, testing, and repair of highway maintenance and construction equipment
 2. Operate powered materials handling equipment (e.g., forklifts, cranes, lifts) used in the diagnosis, preventive maintenance, repair, and construction of highway maintenance and construction equipment
 3. Use machine shop equipment (e.g., brake lathes, engine lathes, milling machines, and welding equipment) used in the preventive maintenance repair, and construction of highway maintenance and construction equipment

ELIGIBLE LIST INFORMATION

A departmental, open eligible list for the **Caltrans Heavy Equipment Mechanic** classification will be established for:

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The names of **successful** competitors will be merged onto the eligible list in order of final score regardless of exam date. Eligibility expires **12 months** after it is established. Applicants must then retake the examination to reestablish eligibility. Veterans' Preference will be granted for this examination. In accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, or widow or widower of a veteran

achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligible list.

Veterans status is verified by the California Department of Human Resources (CalHR). Information on this program and [the Veterans' Preference Application](#) (Std. form 1093) is available online. Additional information on veteran benefits is available at the Department of Veterans Affairs.

Career Credits **will** be added to the final score of competitors who are successful in this examination.

EXAMINATION INFORMATION

[Preview of the Caltrans Heavy Equipment Mechanic Training and Experience Evaluation](#)

PREPARING FOR THE EXAMINATION

Here is a list of suggested resources to have available prior to taking the exam.

Employment History: Employment dates, job titles, organization names and addresses, names of supervisors or persons who can verify your job responsibilities, and phone numbers of persons listed above.

Education: School names and addresses, degrees earned, dates attended, courses taken (verifiable on a transcript), persons or office who can verify education, and phone numbers of persons or offices listed above.

Training: Class titles, certifications received, names of persons who can verify your training, and phone numbers of persons listed above.

TAKING THE EXAMINATION

We recommend using Chrome, Firefox, or Edge for optimal performance when accessing the examination.

Take the [Caltrans Heavy Equipment Mechanic examination](#)

TESTING DEPARTMENTS

Department of Transportation (Caltrans)

CONTACT INFORMATION

If you have any ***technical*** questions concerning this examination bulletin, please contact:

California Department of Transportation

Office of Examination and Executive Selection Services

(916) 227-7858

California Relay Service: (800) 735-2922 (Voice), (800) 734-2929 (TTY)

If you have any administrative questions concerning this examination bulletin, including provision of reasonable accommodation for this testing process, please contact:

California Department of Human Resources
CalCareer Service Center
1810 16th Street
Sacramento, CA 95814
Phone: (866) 844-8671
Email: CalCareer@CalHR.CA.GOV

California Relay Service: 7-1-1 (TTY and voice)

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

EQUAL OPPORTUNITY EMPLOYER

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right of family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding, and related medical conditions), and sexual orientation.

DRUG-FREE STATEMENT

It is an objective of the State of California to achieve a drug-free State work place. Any applicant for State employment will be expected to behave in accordance with this objective, because 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.

GENERAL INFORMATION

Examination and/or Employment Application (STD 678) forms are available at the California Department of Human Resources, local offices of the Employment Development Department, and through your [CalCareer Account](#).

If you meet the requirements stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described in this bulletin will be rated against a predetermined job-related rating, and all applicants who pass will be ranked according to their score.

The California Department of Human Resources 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 applicants will be notified.

General Qualifications: Applicants must possess essential personal qualifications including integrity, initiative, dependability, good judgement, 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) servicewide 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.

High School Equivalence: Equivalence to completion of the 12th grade may be demonstrated in any one of the following ways: 1) passing the General Education Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the competitor is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.