



## HEAVY EQUIPMENT MECHANIC

Exam Code: 8FS0801

<b>DEPARTMENT(S):</b>	<b>Department of Forestry &amp; Fire Protection</b>
<b>OPENING DATE:</b>	<b>January 28, 2019</b>
<b>FINAL FILING DATE:</b>	<b>February 26, 2019</b>
<b>EXAM TYPE:</b>	<b>OPEN</b>
<b>SALARY:</b>	<b>\$4,709.00 - \$5,957.00</b>
<b>LOCATIONS:</b>	<b>Statewide</b>

### EQUAL EMPLOYMENT & DRUG FREE STATEMENTS

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right to 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.

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.

### WHO CAN APPLY

Persons who meet the minimum qualifications of the classification, as stated on this examination bulletin. All applicants must meet the education and/or experience requirements by the final filing date of February 26, 2019 unless otherwise noted on the class specification.

### HOW TO APPLY

To apply for this examination, please complete and return the following:

- [Examination/Employment Application \(STD.678\)](#). This can also be found on the California Department of Human Resources' website. *You may submit your application by mail or in person.*

<b><u>SUBMIT BY MAIL:</u></b>	<b><u>SUBMIT IN PERSON:</u></b>
Department of Forestry and Fire Protection Examination Unit – (Attention: Diana Valenciano) P.O Box 944246 Sacramento, CA 94244-2460	Department of Forestry and Fire Protection Examination Unit – (Attention: Diana Valenciano) 1300 U Street Sacramento, CA 95818

## **DO NOT SUBMIT APPLICATIONS VIA E-mail**

Applications postmarked or personally delivered after the final filing date, **February 26, 2019** will not be accepted for any reason.

All applications/resumes must include "from" and "to" employment dates (month/day/year), time base, and applicable civil service class titles. Applications/resumes received without this information will be rejected.

***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.***

## **EXAMINATION INFORMATION**

In order to obtain a position on the eligible list, applicants must receive a minimum rating of 70% on the examination. *This exam will consist of the following:*

### **STRUCTURED INTERVIEW - WEIGHTED AT 100%**

In this type of exam candidates will be asked pre-determined, job-related questions by a three-person panel and rated against pre-determined benchmarks. *Candidates will be provided with scratch paper and a pencil.*

It is anticipated exams/interviews will be held in **Sacramento and Riverside in March/April 2019**

### **PLEASE NOTE**

All exam questions are based on the Knowledge, Skills and Abilities listed in this bulletin and the [Heavy Equipment Mechanic Class Specification](#) which is located on the CAL HR website. Use this information when preparing for this exam and retain this bulletin for your reference.

## **SPECIAL TESTING ARRANGEMENTS**

If you have a disability and need special testing arrangements, mark the appropriate box on the application and/or contact the Department of Forestry and Fire Protection at (916) 445-7824.

## **MINIMUM QUALIFICATIONS**

Possession of a valid California Class 3 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 I**

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 II**

Four years of varied mechanical experience 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(b) 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.)

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### OR III

Three years performing the duties of a Heavy Equipment Mechanic Apprentice in the California state service, at least two years of which shall have included experience on gasoline and diesel-powered heavy construction or highway maintenance equipment.

## ADDITIONAL DESIRABLE QUALIFICATIONS – PERSONAL CHARACTERISTICS

Possession of a valid California Class 2 or Class 1 driver license.

### Willingness to:

1. Cooperate with others to complete a common goal and/or objective.
2. Work in a repair facility environment to meet the needs of the Department.
3. Work out of mobile repair unit.
4. Remain on duty longer than scheduled shift to meet workforce needs.
5. Perform job duties in extreme temperatures, weather, and locations to meet the needs of the Department.
6. Work independently to facilitate the mission of the Department.
7. Work long, irregular hours to ensure proper coverage.
8. Perform job duties for extended periods of time without rest.
9. Work in hazardous conditions and dangerous environments.
10. Properly utilize Personal Protective Equipment (PPE) for safe and effective operation and use.
11. To follow chain of command.
12. Establish and maintain cooperative relationships with Department employees and the public to meet the mission of the Department.
13. Make safe and effective decisions in the performance of the job.
14. Be away from family for an extended period of time without rest.
15. Work in adverse conditions.
16. Maintain uniform standards per Department policies and procedures.
17. Maintain personal hygiene.
18. Work as part of a team to facilitate the mission of the Department.
19. Work closely with vendors on warranty work and adjustments.
20. Wear a uniform per Department policies and procedures.
21. Move in various ways in order to complete jobs, tasks and projects.
22. Inspect and approve the work of others.
23. Travel long distances to meet the needs of the Department.
24. Be fit for duty while on call to meet workforce needs.
25. Be exposed to hazardous materials.
26. Participate in training sessions to increase technical, administrative, and manipulative skills.
27. Comply with the Departments code of conduct.
28. Take responsibility of repair facility maintenance and inventory to ensure a productive and safe facility.
29. Maintain Department grooming standards.
30. Instruct others in matters of operation and servicing of equipment.
31. Maintain appropriate certificates and licenses per Department policies and procedures.
32. Perform duties in restricted spaces.
33. Assist in the training of others.
34. Direct the work of others.
35. Work with and/or around inmates/wards.
36. Maintain adequate fitness to meet the requirements and needs of the Department.
37. Work on a computer for an extended period of time to complete various tasks and assignments.
38. Be exposed to the possible risk of electrical shock and vibration.
39. Be exposed to traumatic and/or graphic situations.

## ELIGIBLE INFORMATION

A Departmental eligible list will be established for the Department of Forestry and Fire Protection. This list will be abolished 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

**NOTE:** Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination AND the notice to appear showing the scheduled date and time of the exam.

## POSITION DESCRIPTION

Under direction, in a State correctional facility in the Departments of Corrections or the Youth Authority, or in a conservation camp in the Department of Forestry and Fire Protection, to construct, repair, and maintain automotive and heavy maintenance and construction equipment; to maintain order and supervise the conduct of inmates or wards; to protect and maintain the safety of persons and property; may instruct, lead, or supervise inmates, wards, or resident workers; and to do other related work.

## KNOWLEDGE, SKILLS, AND ABILITIES

### Knowledge of:

1. Basic vehicle maintenance and repair to ensure safety and operational readiness.
2. Tools and equipment to ensure safe and effective repairs are completed.
3. Operating characteristics and controls to ensure safe and well-maintained equipment.
4. Operating characteristics of equipment for diagnosis and repair of equipment to ensure safe and effective operation.
5. Emergency equipment to diagnosis and execute repairs.
6. Diagnostics and repair methods for equipment to ensure safe operation and well-maintained equipment.
7. Methods used in overhaul, repair and adjustment of equipment to ensure safe and effective repairs are completed.
8. Proper use of mobile repair unit in various locations to ensure safe and effective utilization.
9. Industry standards required for repair and adjustment of mobile and stationary equipment to ensure safe and effective operations.
10. Defensive driving techniques to safely operate Department vehicles.
11. Department Preventative Maintenance Plan (PMP) to ensure safe and effective operation.
12. Tools and machinery used for preventative maintenance and repairs of all equipment to ensure safe and well-maintained equipment.
13. Equipment modification techniques and practices to ensure equipment meets the needs of the Department.
14. Methods used in fabrication and assembly of equipment to ensure safe and effective repairs are completed.
15. Fabrication methods for modification and repair of equipment.
16. Hazardous materials used for maintenance and repairs to ensure safe and well-maintained facility.
17. Mobile communication devices for effective communication.
18. Basic mathematic calculations for effective job performance.
19. Equipment inventory management to maintain adequate supplies for common repairs to ensure safety and operational readiness.
20. Inventory management to maintain adequate supplies for safe and effective repair facility operations.
21. Regulations to ensure compliance with government mandates.
22. Writing elements to ensure that written materials are complete, concise, and error free.

23. Non-hazardous materials used for maintenance and repairs to ensure safe and well-maintained facility.
24. Preventative maintenance for all equipment to ensure safe and effective operation.

**Skill to:**

1. Repair gas and diesel-powered equipment to ensure safe and well-maintained equipment.
2. Perform mechanical repairs on mobile and stationary equipment to ensure operational readiness.
3. Operate various tools for safe and effective use.
4. Inspect and adjust gas and diesel-powered equipment to ensure safe and well-maintained equipment.
5. Safely drive and operate equipment through adverse conditions to ensure safe and effective operation.
6. Properly lift tools and equipment to prevent personal injury and damage to equipment.
7. Move in various ways in order to complete jobs, tasks and projects.
8. Communicate effectively in order to exchange and/or provide information and/or direction.
9. Multi-task during emergency and non-emergency situations.
10. Operate a personal computer in order to perform daily duties to accomplish job duties and ensure effective job performance.
11. Properly utilize Personal Protective Equipment (PPE) for safe and effective operation and use.
12. Perform arduous physical activity in all conditions and terrain for effective job performance.
13. Use communication equipment for effective communication in emergency and non-emergency situations.
14. Perform gas and electric welding of standard or specialized equipment or components.
15. Use navigation tools for assistance in navigation.
16. Produce written correspondence to effectively convey information.

**Ability to:**

1. Perform preventative maintenance on mobile equipment.
2. Operate Department equipment safely.
3. Work independently to facilitate the mission of the Department.
4. Inspect and adjust gas and diesel-powered equipment to ensure safe and well-maintained equipment.
5. Make safe and effective decisions in the performance of the job.
6. Troubleshoot various equipment to pinpoint repairs and maintenance.
7. Determine and implement effective and appropriate courses of action to perform maintenance on equipment.
8. Work as part of a team to facilitate the mission of the Department.
9. Install various equipment to ensure proper functionality.
10. Perform safety inspections and repairs at various locations.
11. Test various equipment to pinpoint repairs and maintenance.
12. Perform repairs in remote locations away from repair facility.
13. Utilize mobile repair unit for emergencies in various locations to ensure safe and effective operation.
14. Perform arduous physical activity in all conditions and terrain for effective job performance.
15. Repair various equipment and systems to ensure proper maintenance and use of equipment and systems.
16. Establish and maintain cooperative relationships with Department employees and the public to meet the mission of the Department.
17. Work from printed resources in order to complete repairs on equipment and tools.
18. Effectively identify components or broken parts for replacement and/or repair.
19. Communicate effectively in English at a level required for successful job performance.
20. Correct safety hazards to ensure workplace safety.
21. Move in various ways in order to complete jobs, tasks and projects.
22. Accurately interpret and follow directions from others.
23. Interpret manufacturer printed resources of component replacements or broken parts for identification, replacement or modification.
24. Read and interpret reference materials for effective application.
25. Maintain the repair facility and office area to ensure cleanliness and safety.

26. Inspect work done by others to ensure correct completion of assignment.
27. Inspect and approve the work of others.
28. Document all repair work utilizing department forms.
29. Manage time effectively, multi-task, and prioritize assignments in order to meet objectives.
30. Communicate effectively to ensure correct and clear information is conveyed and understood.
31. Use mobile communication devices to effectively communicate in emergency and nonemergency situations.
32. Fabricate various equipment components to ensure proper use of equipment and systems.
33. Instruct operators in the proper operation and servicing of equipment.
34. Perform fabrication projects to repair or modify equipment.
35. Advise on the procurement of parts and equipment.
36. Interpret applicable protocols and standards to ensure compliance with industry standards.
37. Interpret applicable codes, laws, rules, and regulations to ensure appropriate application in all administrative and mechanical activities.
38. Use computer software to complete reports, create documents, invoices, and communicate appropriately with others.

## VETERANS' PREFERENCE

Veterans' Preference will be granted for this examination, pursuant to Government Code section 18973.1, effective January 1, 2014 as follows: 1) Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an entrance examination, shall be ranked in the top rank of the resulting eligibility list. Any veteran who has been dishonorably discharged or released is not eligible for Veterans' Preference. 2) An entrance examination is defined, under the law, as any open competitive examination. And 3) Veterans' Preference is not granted once a person achieves permanent civil service status. Veteran status is verified by the California Department of Human Resources (CalHR). Directions to apply for Veterans' Preference are on the Veterans' Preference Application (Std. Form 1093), which is available at [CAL HR Veterans Information](#) , and the [Department of Veterans Affairs](#).

## CONTACT INFORMATION

Department of Forestry and Fire Protection  
P.O. Box 944246  
Sacramento, California 94244-2460  
(916) 445-7824  
CALFIREexams@fire.ca.gov

TDD is Telecommunications Device for the Deaf and is reachable only from phones  
Equipped with a TDD Device

1 (800) 735-2929 (TT/TDD) 1 (800) 735-2922 (Voice)

STS is Speech-to-Speech Service for persons with a speech disability and is reachable at  
1 (800) 854-7784 (California) or 1 (800) 947-8642 (Nationwide)

## GENERAL INFORMATION

**For all examinations (with or without a written feature)**, it is the candidate's responsibility to contact the Department of Forestry and Fire Protection, (916) 445-7824, three weeks after the cut-off/final filing date if he/she has not received a progress notification or notice to appear.

**If a candidate's notice** of oral interview or performance test fails to reach him/her three days prior to their scheduled appointment due to a verified postal error, he/she will be rescheduled upon written request.

**Applications are available [online](#)** at CalHR, local offices of the Employment Development Department and the testing Department on this job bulletin.

**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.

**The Department of Forestry and Fire Protection** 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.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification. 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.

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

**How to apply for Veterans' Preference:** The California Department of Human Resources (CalHR) has information on how to apply for Veterans' Preference at [CAL HR Veterans Information](#), and the Application for Veterans' Preference Application for (CalHR 1093). Additional information is also available on the [Department of Veterans Affairs](#) website.

**Confidentiality and Security:** Pursuant to Government Code Sections 19680(c) and 19681(b) it is unlawful to copy and/or furnish confidential examination material for the purpose of either improving or injuring the chances of any person or to obtain examination questions or other examination material before, during, or after an examination. Every person violating these provisions is guilty of a misdemeanor, and adverse action will be pursued. This may result in the person being barred from competition in future examinations, withheld from certification lists, or cancellation of eligibility for employment in State civil service.