



ELECTRICAL ENGINEER Exam Code: 0PBDH

Departments: California Energy Commission, Department of Water Resources, and Department of General Services Exam Type: Servicewide, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Electrical Engineer – \$6,175.00 - \$8,848.00* per month (This classification receives a monthly \$300.00 retention bonus. This bonus is not part of the official salary and does not count toward determining retirement benefits.)

View the Electrical Engineer 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 six (6) 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 special testing arrangements due to a verified disability or medical condition, please contact:

California Department of Human Resources CalCareer Service Center 1810 16th Street Sacramento, CA 95814

Phone: (866) 844-8671 Email: <u>CalCareer@CalHR.CA.GOV</u>

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

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.

Electrical Engineer

Education: Graduation from a curriculum in electrical or electronic engineering accredited by the Accreditation Board Engineering and Technology, or equivalent qualifications. (Registration as a Senior in such a curriculum will admit applicants to the examination, but they must product evidence of graduation before they can be considered eligible for appointment.)

Or Possession of equivalent qualifications which may be demonstrated by qualifying in a written examination covering basic electrical engineering and by graduation from college in a curriculum which includes the courses normally included in a standard fouryear course either in electrical or electronics engineering. (Registration as a Senior in such a curriculum will admit applicants to the qualifying written examination, but they

must produce evidence of graduation before they can be considered eligible for appointment.)

POSITION DESCRIPTION

Electrical Engineer

Under direction, the Electrical Engineer initially performs the less complex field and office electrical and electronic engineering work; with training, performs electrical designing, drafting, and inspection of work of average difficulty; and does other related work.

EXAMINATION SCOPE

This examination consists of the following components:

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

The examination will 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. Computer theory and operation.
- 2. Mathematics related to electrical engineering. 3. Electrical and electronic theory and practices.
- 4. Modern electrical apparatus, communications, instrumentation.
- 5. Direct and alternating current circuits.
- 6. Methods, materials, tools and equipment used in electrical and electronic construction work.
- 7. National Electric Code and Electrical Safety Orders of the Division of Occupational Safety and Health.

Ability to:

- 1. Do electrical and electronic design work.
- 2. Make neat and accurate drawings and technical sketches.
- 3. Make electrical calculations
- 4. Inspect electrical installations.

- 5. Specify necessary equipment and materials.
- 6. Accurately interpret drawings, circuit diagrams, and specifications.
- 7. Maintain cooperative relations with employees whose work is being inspected.
- 8. Analyze situations accurately and take effective action.
- 9. Make effective oral and written reports.

ELIGIBLE LIST INFORMATION

A servicewide, open eligible list for the **Electrical Engineer** classification will be established for the State of California (all State of California departments, statewide).

The names of successful competitors will be merged onto the eligible list in order of final score regardless of exam date. Eligibility expires **twelve (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 <u>the Veterans' Preference Application</u> (Std. form 1093) is available online. Additional information on veteran benefits is available at the Department of Veterans Affairs.

EXAMINATION INFORMATION

Preview of the Electrical Engineer 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 Electrical Engineer examination

TESTING DEPARTMENTS

California Energy Commission California Department of Water Resources California Department of General Services

CONTACT INFORMATION

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

California Department of Human Resources Attn: Examination Services 1515 S Street Sacramento, CA 95811 Phone: 1-866-844-8671 California Relay Service: 1-800-735-2929 (TTY), 1-800-735-2922 (Voice)

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

California Energy Commission Selection Services Office 715 P Street MS #52 Sacramento, CA 95814 (916) 653-6532 <u>SelectionsOffice@energy.ca.gov</u>

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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 <u>CalCareer Account.</u>

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 (CalHR) 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 form 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.