



ASSOCIATE ELECTRICAL ENGINEER

Exam Code: 0PBDG

Departments: California Energy Commission, Department of Water Resources, and Department of General Services

Exam Type: Servicewide, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Associate Electrical Engineer – \$9,245.00 - \$11,566.00* 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 Associate 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: 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

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.

Associate Electrical Engineer

Experience: Three years of professional electrical engineering experience, at least two years of which shall have been in design and inspection work in at least two of the following fields: building illumination, outdoor and indoor flood lighting, power installations, communication systems or other complicated electric control systems, and comparable in responsibility to that of an Electrical Engineer, Range B, in the California state service. **and Education:** Equivalent to graduation from college with major work in electrical engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.)

POSITION DESCRIPTION

Associate Electrical Engineer

Designs and prepares the more difficult plans, specifications, and estimates for all types and classes of electrical work, such as building illumination, outdoor and indoor flood lighting, power installations, complicated electric control systems, x-ray equipment, communication and electronic systems; prepares or reviews material lists and requisitions; makes field surveys and recommendations on existing electrical installations and proposed projects; inspects and tests electrical installations and proposed projects; inspects and tests electrical apparatus and installations; as required, directs and reviews the work of Electrical Engineers; checks contractors' drawings and shop drawings submitted for consideration; dictates correspondence and prepares reports.

EXAMINATION SCOPE

This examination consists of the following components:

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

The examination will consist 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. Electrical theory and practice and modern electrical equipment and apparatus.
2. Illumination design and application.
3. Various codes, safety orders, and regulations governing electrical work.
4. Specification writing, estimating and material listing.
5. Circuit design, power, light, signal and control distribution systems, overhead and underground, together with power distribution centers and substations.
6. Principles of effective supervision.

Ability to:

1. Do design work and prepare neat and accurate electrical plans and specifications.

2. Plan and direct the work of others.
3. Establish and maintain cooperative relations with those contacted in the work.
4. Analyze situations accurately and take effective action.
5. Dictate correspondence and prepare reports.

ELIGIBLE LIST INFORMATION

A servicewide, open eligible list for the **Associate 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 [the Veterans' Preference Application](#) (Std. form 1093) is available online. Additional information on veteran benefits is available at the Department of Veterans Affairs.

EXAMINATION INFORMATION

[Preview of the Associate 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 Associate 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
SelectionsOffice@energy.ca.gov

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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 [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 (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 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.