



Senior Engineer Water Resources

Exam Code: 8PB64

Department: Department of Water Resources

Exam Type: Departmental, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Senior Engineer Water Resources –

Range A: \$10,886.00 - \$13,625.00 per month

Range B: \$11,069.00 - \$13,858.00 per month

[View the Senior Engineer Water Resources 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 **nine (9) 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 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.

Senior Engineer Water Resources

Possession of a valid certificate of registration as a civil engineer issued by the [California State Board of Registration for Professional Engineers](#). and

Two years of experience performing the duties of an [Engineer, Water Resources, Range D](#), or [in comparable work](#).

POSITION DESCRIPTION

Senior Engineer Water Resources

Under general direction, to supervise other personnel performing, or may perform, complex civil engineering work in any phase of the State's water resources program; and to do other related work.

EXAMINATION SCOPE

This examination consists of the following components:

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:

General knowledge in all and thorough knowledge in one or more of the following water-oriented civil engineering fields:

1. Water resource development planning, including the science of hydrology, measurement of and evaluation procedures employed in making water resource inventories; water utilization; project economics and layout and formulation of single and multipurpose water development projects.
2. Statutory enactments and court decisions relating to water appropriations, distribution, and the investigation leading to the adjudication of the rights to use water and the practice of distributing water supply under stipulated agreements and court decrees.
3. Design of a wide variety of engineering projects, including hydraulic structures employed in water supply, irrigation, drainage, hydroelectric power production, and flood control and related activities. Requires knowledge of engineering mathematics design methods, and procedures, properties, and uses of construction materials, standard specifications and pertinent codes, construction methods and equipment, and the effect of structural geology and soil conditions on the design and adequacy of structures.
4. Construction, inspection, and maintenance of a wide variety of engineering projects associated with water resource development. Requires knowledge of methods, materials, accepted safety practices, and equipment employed in construction; and

laws, rules, and regulations pertaining to construction, repair, and maintenance of water projects.

5. Operation of water development, transport, and control features to meet water conservation, power generation, flood control, drainage, salinity control, navigation, recreation, and fish and wildlife requirements, including negotiation and administration of contracts.

Knowledge of:

1. California Water Plan, California Water Development Program, other activities of the Department of Water Resources, activities of the State Water Resources Control Board.
2. Principles of effective supervision.
3. The Department's Equal Employment Opportunity Program objectives.
4. A manager's role in the Equal Employment Opportunity Program and the processes available to meet these objectives.

Ability to:

1. Function as a competent specialist in one or more of the fields described above.
2. Prepare clear and concise engineering reports.
3. Effectively direct the work of subordinates.
4. Establish and maintain cooperative relations with those contacted in the course of the work and represent the Department at public meetings.
5. Analyze situations and take effective action.
6. Effectively contribute to the Department's affirmative action objectives.

ELIGIBLE LIST INFORMATION

A departmental, open eligible list for the **Senior Engineer Water Resources** classification will be established for:

Department of Water Resources

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.

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

EXAMINATION INFORMATION

[Preview of the Senior Engineer Water Resources Training and Experience Evaluation](#)

Bulletin Date: 12/15/2023

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 Senior Engineer Water Resources examination](#)

TESTING DEPARTMENTS

Department of Water Resources

CONTACT INFORMATION

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

Department of Water Resources
Selection Services
P.O. Box 942836
Sacramento, CA 94236-0001
Phone: 916-653-4838
TDD: 916-653-1804

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)

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 Department of Water 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.