



Water Resource Control Engineer

Exam Code: 1PB09

Department: State Water Resources Control Board

Exam Type: Departmental, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Water Resource Control Engineer – \$5,849.00 - \$10,956.00 per month.

View [the Water Resource Control 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 **twelve (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 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.

Water Resource Control Engineer

Education: Equivalent to graduation from college with a bachelors or advanced degree curriculum accredited by the Accreditation Board for Engineering and Technology with major work in environmental, chemical, sanitary, mechanical, agricultural, geotechnical, or civil engineering, or a related engineering discipline. (If the Accreditation Board accredits any engineering curriculum for Engineering in the institution from which the degree is earned, all engineering curricula from that institution will be considered accredited.)

Possession of equivalent qualifications may be demonstrated by graduation from an unaccredited curriculum in any of the above specialized engineering fields, which includes the basic engineering courses normally covered in a standard four-year course, and by qualifying in a written examination covering water quality control engineering. (Registration as a Senior or graduate student in any of the above specialized engineering fields will admit the applicant to the examination, but they must produce evidence of graduation before they will be considered eligible for appointment.)

POSITION DESCRIPTION

Water Resource Control Engineer

This is the entry through journey levels of the series. Incumbents move through the ranges as competency and performance increases.

Range A is the entry and first working level in the class. Under close supervision, incumbents perform less difficult professional water quality control or water rights-related engineering work.

Range B is the intermediate working level. Under general supervision, incumbents perform professional water quality control or water rights-related engineering work of average difficulty.

Range C is the full (nonregistered) journey level in the class. Under direction, incumbents perform difficult professional water quality control or water rights-related engineering work. They may act as lead workers on projects of least to more difficult in complexity or be assigned staff specialist responsibilities in support of project managers or other technical or programmatic functions.

Range D is the full (registered) journey level in the class. Under direction, incumbents perform difficult professional water quality control or water rights-related engineering work. They may act as lead workers on more complex projects or be assigned technical staff responsibilities in support of project managers or other technical or programmatic functions. This level may be used in a lead capacity over other Water Resource Control Engineers or other professional or technical employees. Range D requires possession

of a valid certificate of registration as a civil or professional engineer issued by the California State Board of Registration for Professional Engineers.

Vacancies are anticipated at the State Water Resources Control Board in Sacramento and at the Regional Water Quality Control Board in various locations throughout the State.

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.

A written test is only required when the candidate did not graduate from an accredited institution in the United States. The Institution needs to be accredited by the

Accreditation Board for Engineering and Technology. If the candidate did not graduate from an accredited institution in the United States, a written examination will be scheduled at a later date. The written test is pass/fail.

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. Principles of water quality control, water rights, and water resource management
2. Environmental, chemical, civil, agricultural, geotechnical, and sanitary engineering principles relating to the treatment and disposal of sewage and industrial and other wastes
3. Design of and construction of water and wastewater facilities
4. Physical, biological, and chemical factors relating to the control of water pollution and quality, and the management of surface and ground water

Ability to:

1. Evaluate cases of water quality degradation and pollution or nuisance conditions and make recommendations for their elimination and control
2. Prepare, review, check, or interpret engineering reports, plans, estimates, and specifications for varied water and wastewater control facilities
3. Conduct and/or have lead responsibilities over monitoring and surveillance activities
4. Assist in conducting water quality and water rights oriented studies, and assist in the preparation of water quality control plans
5. Dictate correspondence and prepare engineering reports

6. Analyze situations accurately and adopt an effective course of action
7. Establish and maintain cooperative relations with those contacted in the course of the work
8. Communicate effectively
9. Interpret and apply the rules, regulations, and requirements of the State Water Resources Control Board and Regional Water Quality Control Boards

Additional Desirable Qualifications:

Willingness to travel in performing fieldwork throughout the State.

ELIGIBLE LIST INFORMATION

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

State Water Resources Control Board

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 not be added to the final score of this examination, because it does not meet the requirements to qualify for Career Credits.

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

Take the [Water Resource Control Engineer examination](#).

TESTING DEPARTMENTS

State Water Resources Control Board

CONTACT INFORMATION

Questions regarding this examination should be directed to a State Water Resources Control Board (SWRCB) Representative at exams@waterboards.ca.gov or (916) 341-5127.

SWRCB Examination Unit
P.O. BOX 100
Sacramento, CA 95812

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 State Water Resources Control Board 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.