



# Principal Engineer Water Resources

**Exam Code: 8PB63**

**Department:** Department of Water Resources

**Exam Type:** Departmental, Open

**Final Filing Date:** Continuous

## CLASSIFICATION DETAILS

**Principal Engineer Water Resources** – \$13,760.00 - \$15,629.00 per month.

View the [classification specification](#) for the Principal Engineer Water Resources classification.

## 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.

### Principal 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 Experience: Two years of civil engineering experience performing the duties of a [Supervising Engineer, Water Resources](#), or [in comparable work](#).

## POSITION DESCRIPTION

### Principal Engineer Water Resources

Under general direction, to plan, organize, direct, and coordinate the work of (1) a minor branch, or (2) a major activity of a major branch, or (3) all the planning or design activities in the Southern California district, or (4) as a member of the Director's staff to be responsible for a major 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 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: 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 decisions.

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, fish and wildlife requirements, including negotiation and administration of contracts.

California Water Plan, California Water Development Program, other activities of the Department of Water Resources and principles of effective supervision and administration; Department's Affirmative Action Program objectives; a manager's role in the Affirmative Action Program and the processes available to meet affirmative action objectives.

**Ability to:**

1. Function as a competent specialist in one or more of the fields described above.
2. Effectively program, manage, and direct the work of subordinates in major endeavors in two or more of these fields.
3. Prepare and review engineering reports.
4. Establish and maintain cooperative relations with those contacted in the course of the work and represent the Department at public meetings on matters of a sensitive nature.
5. Analyze situations accurately and take effective action.
6. Effectively contribute to the Department's affirmative action objectives.

## **ELIGIBLE LIST INFORMATION**

A departmental, open eligible list for the **Principal 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. 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 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

Take the online [Training and Experience Evaluation](#) for the **Principal Engineer Water Resources** classification.

## TESTING DEPARTMENTS

Department of Water Resources

## CONTACT INFORMATION

Questions regarding this examination should be directed to:

Department of Water Resources

Selection Services  
P.O. Box 942836  
Sacramento, CA 94236-0001

Phone: 916-653-4838  
TDD: 916-653-1804

## **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 12<sup>th</sup> 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.