



# HYDROELECTRIC PLANT MECHANIC I

**EXAM CODE:** 5WRAH  
**EXAM TYPE:** OPEN/CONTINUOUS  
**LOCATION:** BUTTE, CONTRA COSTA, MERCED, KERN, AND  
LOS ANGELES/RIVERSIDE/ SAN BERNARDINO  
COUNTIES  
**SALARY INFORMATION:** \$6401 - \$7935  
**CLASS & SCHEM CODE:** 6456 PL70



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## EQUAL OPPORTUNITY & DRUG FREE STATEMENTS

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right to 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. It is the objective of the State of California to achieve a drug-free 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.

## CONTINUOUS TESTING

Testing is considered continuous as Examination Applications (STD 678) will be accepted on a continuous basis and cut-off dates can be set at any time as departmental needs warrant. Cut-off dates will be announced on the "Notice to Announce Cut-off Date." Applications postmarked after the cut-off date or submitted in person after 4:30 PM on the cut-off date will not be accepted for any reason. Dates printed on Mobile Bar Codes, such as the Quick Response (QR) Codes available at the USPS, are not considered Postmark dates for the purpose of determining timely filing of an application. Faxed applications will not be accepted.

## WHO SHOULD APPLY

Candidates who meet the minimum qualifications of the classification, as stated on this examination bulletin, may apply.

## HOW TO APPLY

Examination Applications must have an original signature. It is the personal responsibility of each examination candidate to submit their application materials within the timeframe and in the manner specified on this examination bulletin. Examinations will be administered in the following counties: Butte, Contra Costa, Merced, Kern or Los Angeles. Please indicate on the Examination Application (Form STD 678), under Question 1, the county where you would like to take the examination. Examination Applications (STD 678) may be mailed or submitted in person by the cut-off date to:

**MAILING ADDRESS:**

Department of Water Resources  
P.O. Box 942836  
Sacramento, CA 94236-0001

**OR**

**SUBMIT IN PERSON:**

Department of Water Resources  
1416 9th Street, Room 320  
Sacramento, CA 95814

**DO NOT MAIL OR SUBMIT APPLICATIONS TO THE CALIFORNIA DEPARTMENT OF HUMAN RESOURCES OR DEPARTMENT OF WATER RESOURCES' FIELD OFFICES.** Applications are available at Department of Water Resources' (DWR) offices, the DWR website: [www.water.ca.gov/jobs/currentexams.cfm](http://www.water.ca.gov/jobs/currentexams.cfm), local office of the Employment Development Department, the California Department of Human Resources (CalHR), and their website: [www.jobs.ca.gov](http://www.jobs.ca.gov).



**For this examination ONLY**, emailed applications will be accepted using the following process. Please note you will be required to sign your application prior to being admitted to the examination.

**EMAIL:**

1. Download the Examination Application (Form STD) [here](#).
2. Complete the Examination Application form and save to computer.
3. Submit the application for the examination listed above by following link to [The Application by Email Instructions](#).

**IDENTIFICATION REQUIRED**

Accepted applicants are required to bring either a photo identification card or two forms of signed identification to each phase of the examination.

**SPECIAL TESTING INFORMATION**

If you have a disability and need special testing arrangements, mark the appropriate box in Question 2 of the Examination Application (STD 678). You will be contacted to make specific arrangements.

**ELIGIBLE LIST INFORMATION**

An open list will be established for the Department of Water Resource. The names of successful competitors will be merged onto the list in order of final scores. The list will be abolished 12 months after it is established unless the needs of the service and conditions of the list warrant a change in this period. Competitors must then retest to reestablish eligibility.

**TESTING PERIOD**

Competitors may test only once during a 12 month period.

**EXAMINATION INFORMATION**

This examination will consist of a Qualification Appraisal Interview weighted 60% and a performance test weighted 40%. In order to obtain a position on the eligible list, a minimum rating of 70% must be attained in each phase of the examination. Competitors who do not appear for the interview will be disqualified.

**EXAMINATION DATES**

This is a continuous examination therefore examination dates will be announced throughout the year.

**POSITION DESCRIPTION**

A Hydroelectric Plant Mechanic I, under supervision, performs mechanical maintenance and repair work on large hydroelectric generating and pumping plant equipment and does other related work.

**REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION**

All applicants must meet the minimum qualifications for this examination by the written test date.

Qualifying experience may be combined on a proportionate basis if the requirements stated below include more than one pattern and are distinguished as "Either" I, "or" II, "or" III, etc. For example, candidates possessing qualifying experience amounting to 50% of the required time of Pattern I, and additional experience amounting to 50% of the required time of Pattern II, may be admitted to an examination as meeting 100% of the overall experience requirement.

**Either I**

Completion of a recognized apprenticeship as a hydroelectric plant mechanic or machinist. (Apprentices who are within six months of completion of their apprenticeship may be admitted to the examination, but they must present evidence of completion of their apprenticeship before they may be appointed).

**Or II**

One year of journeyman experience maintaining and repairing heavy equipment used in hydroelectric generating or pumping plants.



## SCOPE OF EXAMINATION

In addition to evaluating the competitors' relative abilities as demonstrated by the quality and breadth of experience, emphasis in the examination will be on measuring competitively, relative to job demands, each competitor's:

### Written Test

#### Knowledge of:

- 1) Methods, materials, tools, and equipment used in maintaining, servicing, and repairing large turbines, generators, motors, pumps, valves, and intake structures used in large hydroelectric generating and pumping plants.
- 2) Safety Orders of the Division of Industrial Safety dealing with electrical, welding, rigging and mechanical systems.

#### Ability to:

- 1) Read and understand wiring diagrams and blueprints.

### Performance Test

#### Knowledge of:

- 1) Methods, materials, tools, and equipment used in maintaining, servicing, and repairing large turbines, generators, motors, pumps, valves, and intake structures used in large hydroelectric generating and pumping plants.
- 2) Techniques of arc and gas welding.
- 3) Methods, materials, tools and equipment used in repairing and servicing mechanical gauges and measuring devices.
- 4) Safety Orders of the Division of Industrial Safety dealing with electrical, welding, rigging and mechanical systems.
- 5) Techniques used in performing rigging and operating a large overhead crane.
- 6) Mathematics normally required in this trade.

#### Ability to:

- 1) Read and write English at a level required for successful job performance.
- 2) Estimate job time and required materials.
- 3) Read blueprints and work from plans and specifications.
- 4) Keep simple records and make reports.
- 5) Follow oral and written instructions.
- 6) Instruct and supervise unskilled assistants.

## ADDITIONAL DESIRABLE QUALIFICATIONS

Education equivalent to completion of the twelfth grade.

## VETERANS PREFERENCE

Assembly Bill 372, signed into law by Governor Brown on August 12, 2013, changes the way the Veterans Preference process is administered by the State of California. Veterans Preference will be awarded as follows, starting on January 1, 2014: 1) Any veteran, widow or widower of a veteran, or spouse of a 100 percent disabled veteran, who achieves a passing score in an entrance examination, shall be ranked in the top rank of the resulting eligibility list. Any veteran who has been dishonorably discharged or released is not eligible for Veteran's Preference. 2) An entrance exam is defined, under law, as any open competitive examination 3) Veterans Preference is not granted once a person achieves permanent civil service status.

The California Department of Human Resources (CalHR) has information on how to apply for Veterans Preference on their website at [www.jobs.ca.gov](http://www.jobs.ca.gov) and on the Application for Veterans Preference form (CalHR 1093). Additional information is also available at the Department of Veterans Affairs website at [www.cdva.ca.gov](http://www.cdva.ca.gov).

## CAREER CREDITS

Career Credits are not granted in open or promotional examinations.

## GENERAL INFORMATION

**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 competitors will be notified.

**For an examination without a written feature**, it is the candidate's responsibility to contact the Department of Water Resources three days prior to the written test date if he/she has not received his/her notice of appointment.

**Applications** are available at Department of Water Resources' (DWR) offices, the DWR website:

[www.water.ca.gov/jobs/currentexams.cfm](http://www.water.ca.gov/jobs/currentexams.cfm), local office of the Employment Development Department, and California Human Resources (CalHR) at [www.jobs.ca.gov](http://www.jobs.ca.gov).



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**If you meet the requirements** stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirement does not assure a place on the eligible list. All candidates who pass will be ranked according to their scores.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the classification.

**Examination Locations:** When a written or performance test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant. Ordinarily, qualifications appraisal interviews are scheduled in Sacramento and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

**If a candidate's notice** of oral interview fails to reach him/her prior to the day of the interview due to a verified postal error, he/she will be rescheduled upon written request.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open eligible list. 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 this bulletin. In the case of continuous testing examinations, names are merged into the appropriate lists in order of final test scores (except as modified by veterans preference credits) regardless of the date of the test, and the resulting eligible lists will be used only to fill vacancies in the area shown on the bulletin.

**Promotional Examinations Only:** Competition is limited to employees who have a permanent civil service appointment. Under certain circumstances other employees may be allowed to compete under provisions of Rules 234, 235, 235.2. State Personnel Board Rules 233, 234, 235, 235.2 and 237 contain provisions regarding civil service status and eligibility for promotional examinations. These rules may be reviewed at departmental personnel offices or at the Information Counter of State Personnel Board offices.

**TDD** is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device. **California Relay Telephone Service** for the Deaf or hearing impaired: From TDD phones: 1-800-735-2929; From Voice phones: 1-800-735-2922.

### CONTACT INFORMATION

For information regarding this examination please contact Selection Services at (916) 653-4838.