



AIR QUALITY ENGINEER 1 AND 2

Exam Code: 0PB42-01 and 0PB32-02

Department: Department of Consumer Affairs

Exam Type: Departmental, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Air Quality Engineer 1 – \$5,540.00 - \$10,376.00 per month

Air Quality Engineer 2 – \$8,985.00 - \$11,248.00 per month

View the [Air Quality Engineer 1 and 2 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 assistance or alternative testing arrangements due to a disability, please contact the testing department listed in the Contact Information 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.

Air Quality Engineer 1

Either I

Two years of experience in the California state service performing the duties of an Air Quality Representative II, Department of Consumer Affairs.

(Promotional candidates who are within six months of satisfying the experience requirement for this class will be admitted to the examination, but they must meet the experience requirement before being eligible for appointment.)

Or II

Two years of experience in air quality control monitoring, regulation, research and development, air quality and emissions data collection and analysis, at least one year of which has been (1) directly involved in the development, implementation, or statistical analysis of the vehicle emissions inspection program or enhancements to the program, and/or in the evaluation and development of advanced emissions diagnostic and repair processes; or (2) as a recognized technical expert, developing complex studies in air quality control or a closely related field.

Or III

Equivalent to graduation from college with a major in the environmental sciences, physics, chemistry, mathematics, engineering, or a closely related field.

(Registration as a senior in a recognized institution will admit applicants to the examination, but they must produce evidence of graduation or its equivalent before they can be considered eligible for appointment.)

Air Quality Engineer 2

Either I

Two years of experience in the California state service performing the duties of an Air Quality Engineer I, Department of Consumer Affairs, Range C.

Or II

Five years of experience in air quality control monitoring, regulation, research and development, air quality and emissions data collection and analysis, at least three years of which have been (1) directly involved in the development, implementation, or statistical analysis of the vehicle emissions inspection program or enhancements to the program, and/or in the evaluation and development of advanced emissions diagnostic and repair processes; or (2) as a recognized technical expert, developing complex studies in air quality control or a closely related field.

(Possession of a Bachelor's Degree in Environmental Sciences, Physics, Chemistry, Mathematics, Engineering, or a closely related field may be substituted for two years of experience; possession of a Master's Degree in the same fields may be substituted for three years of experience; or possession of a Doctoral Degree may be substituted for four years of experience.)

(Candidates who are within six months of satisfying the education/experience requirement for this class will be admitted to the examination, but they must meet the education/experience before being eligible for appointment.)

POSITION DESCRIPTION

Air Quality Engineer 1

This is the entry and first working level in the series. Incumbents in Range A work under close supervision and perform the less difficult air quality engineering and motor vehicle pollution control work. Duties may include: maintain, calibrate, and procure various equipment for an engineering laboratory; conduct quality control audits; collect, analyze, and evaluate statistical reports and test data to determine compliance with program requirements, laws, and regulations; observe and analyze roadside inspection procedures; assist in the administration of engineering contracts; respond to inquiries and correspondence; research problems and draft reports and recommendations; and do other related work.

Air Quality Engineer 2

This is the expert level in the series. Incumbents are responsible for a permanent program or for sensitive and/or complex projects involving emerging or undefined issues or problems. These programs or projects typically involve intense conflict dealing with state-of-the-art technology, public concern, local, State or Federal Government issues, costs, and business interests. Incumbents at this level possess expertise greater than required for full journey level engineering and analytical assignments. This expertise is critical to completing assignments which directly affect the Department's basic mission. Duties may include all of the above, and: provide technical advice; develop and implement program policies and procedures for field offices, Referee, and Quality Assurance personnel; develop broad policy and legislative proposals which have immediate and long-range impact; and 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:

Knowledge of:

1. Engineering principles (e.g., materials, stress analysis, statics and dynamics, thermodynamics, heat transfer, circuits, fluids) to prescribe specifications, develop procedures, and evaluate new technologies.
2. Principles of physics to prescribe specifications, develop procedures, and evaluate new technologies.
3. Chemistry principles as they relate to automotive emissions to prescribe specifications, develop procedures, and evaluate new technologies.
4. Scientific research methods to reach sound and defensible conclusions.
5. Statistics and statistical analysis methods to develop reports and/or analyze research data.
6. Emission control systems to set applicable standards and test procedures.
7. Methods for measuring

Ability to:

1. Examine data for anomalies, patterns, and/or other irregularities to assess for trends and/or potential issues.
2. Write a variety of documents (e.g., plans, technical reports, letters, technical manuals, white paper) using proper English and in a clear, concise, and technically accurate manner to ensure written information is relayed accurately.
3. Read plans, charts, and graphs in order to complete work activities.
4. Read and understand technical documentation in order to understand issues surrounding emissions control systems.
5. Analyze data to assess for trends, conduct research, and/or ensure rules and regulations are followed.
6. Perform database trend analysis to prevent problems and optimize performance to meet the Bureau of Automotive Repair's business needs.
7. Identify station equipment requirements necessary to ensure stations have equipment available to perform accurate inspections and proper repairs.
8. Coordinate work activities with various individuals/entities (e.g., multiple business units, outside agencies, contractors) to ensure requirements meet business needs.

9. Conduct research on technical problems to determine the source of the problem and/or to support management and legislative decision-making processes.
10. Write summaries of study findings to document the conclusions for executive review.
11. Write technical documents (e.g., fact sheets, public notices, internal memoranda, white papers) to support management and/or regulatory decision making process.
12. Identify priority on multiple projects and assignments to complete appropriate assignments based upon the Bureau of Automotive Repair's business needs.

ELIGIBLE LIST INFORMATION

A departmental, open eligible list for the **Air Quality Engineer 1 and 2** classification will be established for:

Department of Consumer Affairs

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 competitors who are successful in this examination.

EXAMINATION INFORMATION

[Preview of the Air Quality Engineer 1 and 2 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 [Air Quality Engineer 1 and 2 examinations](#)

TESTING DEPARTMENTS

Department of Consumer Affairs

CONTACT INFORMATION

If you have any 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 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.