



EXAMINATION OPEN TO THE PUBLIC

SANITARY ENGINEER 2 (PUBLIC HEALTH)

ANNUAL \$51,488
SALARY: \$71,065

SALARY
GROUP: ES 22

APPLICATION CLOSING
DATE: MAY 11, 2012

EXAM
NO: 120820APPD

[SPECIAL APPLICATION AND EXAMINATION INSTRUCTIONS APPEAR BELOW](#)

PURPOSE OF CLASS: In the Department of Public Health, this class is accountable for independently performing a full range of tasks in inspecting water purification, sewage, and industrial waste treatment plants; conducting sanitary surveys; inspecting public and semipublic water supplies and watersheds; investigating potential or existing sources of pollution for the purpose of pollution control of public waterways or inspecting solid and hazardous waste treatment and disposal facilities and reviewing plans for such facilities and conducting investigations of groundwater contamination.

MINIMUM QUALIFICATIONS REQUIRED

IN ORDER TO BE CONSIDERED FOR ADMITTANCE INTO THIS EXAMINATION, YOU MUST INDICATE ON YOUR APPLICATION THAT YOU HAVE THE FOLLOWING EXPERIENCE AND TRAINING BY **MAY 11, 2012**:

GENERAL EXPERIENCE: Six years' experience in sanitary engineering involving design, construction, or operation of water, sewage, or industrial waste treatment plants and equipment, inspection and regulation of water supplies, or investigation of sanitation and waterway pollution problems.

SUBSTITUTIONS ALLOWED: (1) College training in civil or chemical engineering with courses in sanitary engineering, soils engineering, or waste management may be substituted for the General Experience on the basis of fifteen semester hours equaling one-half year of experience to a maximum of four years for a Bachelor's degree. (2) A Master's degree in Sanitary, Civil, or Chemical Engineering may be substituted for one additional year of the General Experience.

SPECIAL REQUIREMENTS: Incumbents in this class may be required to travel.

WORKING CONDITIONS: Incumbents in this class may be exposed to some risk of injury or physical harm from on-site environments and a moderate degree of discomfort from exposure to year-round weather conditions.

KNOWLEDGE, SKILLS AND ABILITIES: Knowledge of principles and practices of sanitary engineering with references to water supply, sewage, and bathing places, but not including sanitary aspects of industrial hygiene, milk production, or insect control; knowledge of methods and practices of sewage treatment and water purification; interpersonal skills; oral and written communication skills; ability to conduct detailed engineering investigations and studies; ability to prepare, review, and evaluate plans and sketches of water and waste and sewage treatment facilities; ability to conduct and interpret chemical, bacteriological, and microscopic analyses of water and wastes.

THE EXAMINATION WILL BE COMPOSED OF:

PART
EXPERIENCE AND TRAINING

WEIGHT
100%

APPLICATION/EXAMINATION PROCEDURE

**APPLICANTS MUST SUBMIT: (1) Completed Application Form (CT-HR-12)
(2) Supplemental Examination Materials (see instructions below)**

In order to be considered for admittance into this examination, you must complete all parts of the examination application (CT-HR-12) detailing how you meet the minimum experience and training requirements stated above AND complete the required examination materials as detailed below. Applicants who do not submit the required application and examination supplemental materials by the closing date will not be admitted into the examination and will not have the right to appeal this decision. Resumes and/or vitas will not substitute for the required application form or for the required examination materials.

EXAMINATION INSTRUCTIONS: Section 1. For each job (maximum of three) which you feel has best prepared you for the job of Sanitary Engineer 2 (Public Health), include a 1-2 page (typed or printed) description detailing your duties and responsibilities. (Applicants serving provisionally or temporarily in the title of Sanitary Engineering 2 (Public Health) cannot include this as one of the three jobs.) Each job description should begin on a separate page and begin with your job title, company name and location, dates of employment, and number of hours worked per week. This should be followed by a description of your duties and responsibilities organized and formatted around the numbered items that follow. (1) Experience in analyzing, evaluating and investigating sanitary engineering matters, including water supply, sewage and bathing places. Detail your experience administering and enforcing health laws and regulations. Be specific in describing what duties you actually performed, and your level of responsibility/accountability in this area. (2) Experience inspecting and evaluating distribution, treatment and overall adequacy of water purification, water treatment plants, water distribution systems, storage tanks, wells and sewer systems. Detail your experience reviewing plans and specifications for such systems. Also detail your experience preparing plans and sketches for water supplies and sewage systems. Include any experience you have had performing health impact reviews. Detail your experience conducting field surveys and collecting and analyzing data related to water treatment plants and sewage disposal systems. Include any experience you have had collecting samples and taking flow measurements, preparing reports, plans and diagrams of factors affecting pollution. Also describe any experience you have had performing chemical, bacteriological and microscopic analyses of water and wastes. (3) Oral and written communication experience. Describe the types, content, format and/or make-up of the records, summaries, correspondence and/or reports you have written on engineering issues. Describe any experience you have had dealing/interacting with others which you feel demonstrates your oral and interpersonal communication skills. Be specific in explaining the nature of those dealings and the level/title of the individuals with whom you interacted. Describe your experience providing technical assistance to others and the nature and purpose of this assistance. Describe any experience you have had testifying at hearings as a technical expert. **Section 2.** On a separate page, include a list of degrees, certifications, licenses and courses that you have completed which have prepared you for the job. **Important Notes:** (1) Make certain both your application form and your examination materials are complete and separate documents not referencing the other, as your application form and supplemental examination materials may be separated during the scoring process. (2) Examination materials should be clearly marked as such and each page should contain the examination title, exam number and your social security number (do not include your name). (3) Do not include materials other than those requested above. (4) **Your examination will only be scored if you meet the minimum experience and training requirements outlined above and your CT-HR-12 and supplemental examination materials are date stamped by DAS/Human Resources or postmarked by May 11, 2012.** (5) **Mail applications/examination materials to DAS/Human Resources, Room 404, State Office Building, 165 Capitol Avenue, Hartford, Connecticut 06106-1658 (Secure Fax #860-622-2910).** If faxing materials make certain that your application form is complete and transmitted correctly and without error. Keep a copy of your completed application/examination package and the fax transmittal receipt for your records. Incomplete faxes or faxes received blank because pages were faxed upside down will not be accepted. (6) Due to the large number of applications received, we cannot confirm receipt of applications. (7) **Examination scores will be mailed by June 29, 2012.** (8) A separate application/examination package must be submitted for each exam you are applying for.

FORMS: Application forms (CT-HR-12) and exam announcements are available from the Department of Administrative Services (<http://das.ct.gov/employment>) and at the Offices of the Connecticut State Job Centers.

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

The State of Connecticut is an equal opportunity/affirmative action employer and strongly encourages the applications of women, minorities, persons with disabilities, and military veterans.