

CHEMIST II

NATURE OF WORK IN THIS CLASS:

This is moderately complex professional laboratory work performing analyses and examinations of chemical substances and materials.

Employees in this class perform moderately complex chemical and physical analyses work independently on an ongoing basis and participate in the full range of complex professional duties under closer supervision.

ILLUSTRATIVE EXAMPLES OF WORK: (Any one position may not include all the duties listed, nor do the examples cover all duties which may be performed.)

Performs moderately complex, as well as, standard chemical laboratory tests using a variety of instruments including chromatographs, spectrophotometers, pH meters, and microscopes.

Oversees laboratory work to ensure adequacy and accuracy testing and achieve optimum use of instruments, equipment and techniques.

Analyzes water samples from various areas; standardizes solutions and prepare reagents to make determinations.

Analyzes, dusts, fumes, vapors, and other atmospheric substances to determine presence of toxic contaminants.

Analyzes pesticides to determine content and perform analyses of various materials to determine residual pesticides.

Analyzes food and beverages to determine chemical content of products, presence of preservatives and pesticide residues and other foreign, toxic, or contaminant substances.

Analyzes foods and fertilizers to determine content of protein, nitrogen, fat, fiber, potash, and other elements and compounds.

Participates in research projects.

Performs biochemical analyses such as testing urine for presence of narcotic drugs.

Maintains records and prepare reports.

Maintains work areas and equipment and may do minor repair and calibration.

May do field sampling.

Performs related duties as required.

MINIMUM KNOWLEDGE, ABILITIES AND SKILLS:

Knowledge of analytical, physical, and organic chemistry.

Knowledge of the application of standard laboratory technology, use of standard laboratory equipment and preparation and standardization of reagents and solutions.

Knowledge of biochemistry as related to work involved.

Ability to perform a variety of different chemical tests and analyses with accuracy.

Ability to work effectively with the public and employees.

Ability to communicate effectively, orally and in writing.

Ability to understand and interpret directions, formulate and charts.

Ability to maintain records and prepare reports.

Skill in the use of laboratory equipment.

MINIMUM EXPERIENCE AND TRAINING:

(A) One year of professional chemical analysis experience and graduation from a recognized college or university with a Bachelor's degree in chemistry; or

(B) Any equivalent combination of experience and training beyond a Bachelor's degree which provides the minimum knowledge, abilities, and skills.

ESTABLISHED: July 1980



DAVID R. FLORES, Executive Director
Civil Service Commission