

**CLASS TITLE:**

**SENIOR CHEMIST**

**Class Code: 02726300**

**Pay Grade: 26A**

**EO: B**

**CLASS DEFINITION:**

**GENERAL STATEMENT OF DUTIES:** To perform standardized and difficult qualitative and quantitative chemical tests and analyses; to supervise employees in a small laboratory, or in a program within a laboratory, engaged in qualitative and quantitative chemical analyses; and to do related work as required.

**SUPERVISION RECEIVED:** Works under direction of a superior who occasionally assists on difficult problems; work is subject to review upon completion.

**SUPERVISION EXERCISED:** Assigns, coordinates and reviews the work of chemists and support staff in a small laboratory, or program within a laboratory.

**ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:**

To perform and/or direct standardized and difficult qualitative and quantitative chemical tests and analyses.

To perform wet chemical and instrumental methods of analysis.

To operate and maintain complex analytical equipment.

To perform new, unusual or difficult laboratory examinations.

To perform research studies pertaining to various projects.

To devise and implement quality control procedures.

To coordinate and integrate laboratory unit activities with those of other laboratory units.

To review, analyze and evaluate scientific reports prepared by subordinates and make recommendations regarding their release and implementation.

To organize and maintain laboratory literature resources in the area of the unit's specialty.

To appear in court or at hearings as an expert witness.

To implement laboratory safety regulations and review activities to ensure conformity to such regulations.

To compile data to prepare scientific reports.

To do related work as required.

**REQUIRED QUALIFICATIONS FOR APPOINTMENT:**

**KNOWLEDGES, SKILLS AND CAPACITIES:** A thorough knowledge of the principles of analytic, inorganic, organic, physical and biological chemistry; a thorough knowledge of the practices and techniques applied to sampling and performing a variety of chemical and/or microscopic tests and analyses; a thorough knowledge of laboratory methods and techniques; a thorough knowledge of laboratory instrumentation; a thorough knowledge of research techniques as related to laboratory studies; the ability to instruct and train subordinates; the ability to perform complex chemical tests and analyses; the ability to operate, utilize and adjust instruments and equipment; the ability to supervise and review the work of subordinates; the ability to perform research activities; the ability to analyze and interpret findings and to present conclusions and recommendations; the ability to understand and follow complex oral and written instructions; the ability to observe and implement safety precautions and practices; and related capacities and abilities.

## **EDUCATION AND EXPERIENCE:**

Education: Such as may have been gained through: graduation from a college of recognized standing with a Bachelor's Degree in Biological or Physical Science with a minimum of (18) semester hours in chemistry; and

Experience: Such as may have been gained through: employment in a private, public health or medical laboratory involving the performance of routine and complex chemical tests and analyses.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Revised: October 7, 1990

Editorial Review: 3/15/03