

Chemist 1

I. KIND AND LEVEL OF WORK

Entry-level professional work performing chemical analysis in a laboratory setting. Under general supervision, an employee in this class is responsible for performing chemical analysis, making observations, taking measurements, and interpreting results in accordance with accepted scientific principles and techniques. This position is generally responsible for following a sample through the entire analytical process including method selection, sample preparation, analysis, data evaluation, reporting, and sample storage/disposal. The incumbent periodically reports results and interpretations to a higher-level laboratory employee.

II. DISTINGUISHING CHARACTERISTICS

At the Chemist 2 level, there is more complexity and scientific judgment exercised when assessing appropriate methods and procedures used during analysis, interpreting results, and in the level of direction provided to laboratory staff.

III. EXAMPLES OF WORK/DUTIES

(A position may not include all the work examples given, nor does the list include all that may be assigned.)

- Analyze chemical and physical laboratory samples so that analysis is completed in a timely and accurate manner.
- Ensure equipment used for sample analysis is in good working condition and maintenance is performed and recorded in accordance with lab procedures, malfunctions are documented and reported to the lead worker or supervisor and placed out-of-service until the problem is corrected.
- Quality control and sample results are evaluated to determine compliance with method acceptance criteria. Re-analysis, if needed, is performed as soon as possible and before the maximum hold time expires.
- Compile all pertinent data, notes, calculations into data packets so that results can be followed easily and all reagents, standards, and instrumentation can be traced by the lead worker or supervisor.

IV. KNOWLEDGE, SKILLS, AND ABILITIES

Knowledge of:

- *Principles, practices, procedures, and techniques of analytical chemistry sufficient to carry out assigned chemical analysis in the laboratory.*
- *Chemical laboratory test equipment sufficient to operate, maintain, and identify irregularities in equipment for use in assigned chemical analysis.*

- *Databases sufficient to set up and run basic queries, review, and analyze data, and identify problem areas in areas which may include data, formulas, or security.*

Ability to:

- *Organize, analyze, and present data from research with scientific accuracy and thoroughness sufficient to keep clientele informed as needed.*
- *Understand and follow complex oral and written directions, formulas, and charts sufficient to assemble research material and perform required chemical analysis.*
- *Follow approved scientific laboratory methods sufficient to ensure the accuracy and validity of test results.*

LICENSURE/CERTIFICATION/STATUTORY REFERENCES

SPECIAL WORK CONDITIONS

REFERENCES

Former title(s): Chemist, 04/89

REVISION HISTORY

Established 07/67

Revised 12/23

Ckd: 09/68