

**77851**  
**CHEMIST 1**

**EXAMINATION METHOD:** The examination for Chemist 1 consists of a computer-administered written test. To be eligible for employment consideration an applicant must attain a passing score, 70 or greater, on the examination. An applicant's standing or rank on an eligible list is based on this score.

**TEST SUMMARY:** The written test for Chemist 1 is computer-administered and consists of 100 multiple-choice questions divided into five test sections. Each test section has been designed to assess the knowledge, skills, and abilities required to effectively perform Chemist 1 job duties. The five test sections are:

**General Chemistry** - Questions assess an applicant's knowledge of basic general chemistry principles, including characteristics of acids and bases, terminology, laboratory procedures, and other related areas.  
(24 questions)

**Quantitative and Qualitative Chemistry** - Questions assess an applicant's knowledge of both quantitative and qualitative procedures; including gravimetric, colorimetric, and volumetric analysis, preparation of solutions, identification of unknowns, and other related topics. (27 questions)

**Instrumentation** - Questions assess an applicant's knowledge and familiarity with chromatography, spectrophotometry, basic laboratory equipment, calibration of instruments, and other topics related to chemical instrumentation. (20 questions)

**Organic Chemistry** - Questions assess an applicant's knowledge of basic organic chemistry, including extractions and separations, distillation procedures, classification of compounds, and other related topics.  
(14 questions)

**Mathematics and Measurement Conversions** - Questions assess ability to perform various calculations, as well as knowledge of some of the most important measurement conversions used by chemists. (15 questions)