

CLASSIFICATION SPECIFICATION

FLSA:	NEXP	Job Code:	ACV77352
Job Class Code:	760	Salary Schedule:	ANONREG
EEO Category:	02	Grade:	S7
Workers Comp Code:	9410		

Job Code Established:	04/17/84	Effective Date:	
Job Code Revised:	01/01/94	Effective Date:	

JOB CODE SERIES: Transportation Series

JOB CODE TITLE: TRANSPORTATION MATERIALS CHEMICAL ANALYST II

HRIS TITLE: TR MAT CHEM ANALYST II

WORK DESCRIPTION: Conducts chemical research and analysis in support of highway construction projects; provides necessary analysis of the chemical properties of various highway materials; may be responsible for providing work direction to lower level staff members.

WORK ACTIVITIES: Performs chemical tests in laboratory to determine presence of various toxic chemical substances (lead, arsenic, cyanides, fluorides, et al).

Learns and applies new methods of analyses and incorporates these into laboratory routines.

Develops new methods of testing in laboratory, by applying knowledge and skills, reading relevant materials, and consultation with others.

Writes detailed reports based on research, investigation or inquiry, in prescribed format or on established forms provided.

Writes detailed reports based on research, analysis and evaluation of data pertaining to specific projects, conditions or proposals under study, involving application of expert or highly specialized knowledge, and recommendations for action to be taken or resolution of problems.

Writes detailed reports of completed laboratory analyses, outlining procedures, materials, conditions and results.

Instructs, guides and counsels subordinate-level workers in carrying out a variety of tasks.

Confers with other practitioners and technical experts in own field of specialization, in order to broaden knowledge, acquire specific information or obtain advice or consultation.

Prepares tables, charts, graphs and other data summarizations; performs calculations; draws graphic representations, roughs out tables, charts or graphs for typing or finishing.

Plans and designs research projects; establishes priorities, recommends schedules, timetables and costs.

Performs related work as required.

WORK CONDITIONS: Considerable exposure to those hazards normally associated with laboratory work.

SUPERVISION: Works under the general direction of a first-line supervisor and exercises independent judgment within established program policies and procedures.

WORK RESULTS/PRODUCTS: Completed chemical analyses of highway materials; completed chemical analysis reports.

RESPONSIBILITY: Scheduling and prioritizing work assignments within established time frames; accurate analyses of chemical properties of highway materials.

AUTHORITY: Authorizes preparation, use of, storage and handling of all chemicals and laboratory equipment assigned to the work area.

KNOWLEDGE, SKILLS AND ABILITIES

Knowledge of: the principles of analytical, physical, inorganic and organic chemistry as applied to the evaluation and analysis of highway materials; applied research methods, procedures and techniques.; statistical analysis methods, procedures and techniques; computer programs available for use within the work unit.

Skill/Ability to: the assembly, operation and maintenance of a variety of laboratory equipment; the safe handling and use of chemicals; analyzing and interpreting the results of laboratory tests; researching and investigating a wide range of technical literature applicable to the area of assignment.

SPECIAL SELECTION FACTORS: Bachelor of Science degree in chemistry and two years of experience equivalent to the Transportation Materials Chemical Analyst I.