

CLASSIFICATION SPECIFICATION

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| FLSA: | NEXP | Job Code: | ACV37022 |
| Job Class Code: | 030 | Salary Schedule: | ASRRAGRIC |
| EEO Category: | 02 | Grade: | 18 |
| Workers Comp Code: | 9410 | | |

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| Job Code Established: | 12/26/84 | Effective Date: | |
| Job Code Revised: | 07/01/89 | Effective Date: | |

JOB CODE SERIES: Agricultural Chemistry Analyst Series

JOB CODE TITLE: AGRICULTURAL CHEMISTRY ANALYST II

HRIS TITLE: AGRIC CHEMISTRY ANALYST II

CHARACTERISTICS OF THE CLASS: Reports to Agricultural Chemistry Analyst III. Authority to determine appropriate test procedures to be used and the standardization of reagents and solutions. Works with toxic and hazardous materials. Conducts chemical analyses of agricultural products; determines methodology to be used for testing, analysis and reporting results; performs preventative instrument maintenance; may lead and train subordinate staff.

EXAMPLES OF DUTIES: Performs chemical tests in the state agricultural laboratory to determine presence of various toxic chemical substances (lead, arsenic, cyanides, fluorides, et al). Analyzes commercial fertilizers in the state agricultural laboratory to check their guaranteed nutritional value. Performs analyses of food samples, testing for presence of pesticide residues. Performs experimental tests to develop new procedures in analysis and updated laboratory methodology and instrumentation to the current state-of-the-art. Chemically analyze commercial feeds, fertilizers and pesticides for label content. Weigh feed, fertilizers, pesticides, herbicides and related samples on varied analytical balances. Makes quality control tests, to assure that all ingredients are present in appropriate quantities. Records data from controlled experiments in the agricultural laboratory or field. Prepares samples by chopping and grinding, filtrating, titrating, digesting, distilling and neutralizing. Compares data from several sources to assure compliance with technical documents, using judgment and relaying upon considerable knowledge of the subject material. Attends work unit staff meetings; gives and receives information; participates in problem solving and decision-making. Performs routine preventive maintenance of instruments. Record incoming test samples and outgoing interpretation of results. Attends periodic workshops or training sessions to improve working knowledge and skills at skilled specialist or consultant level in work system; such training encompasses a body of theory or conceptions, underlying a field of practice. Performs related work as required.

WORK RESULTS/PRODUCTS: Accurate chemical analyses with recorded test results; calibrated, maintained and functional laboratory instruments.

KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge of: principles and procedures applied in making quantitative and qualitative chemical analysis of agricultural products. Knowledge of statistical analyses methods, procedures and techniques. Knowledge of quality control procedures and technical application. Knowledge of the use of standard and electronic laboratory instruments. Knowledge of preparation and standardization of reagents and solutions.

Skill/Ability to: developing laboratory procedures and performing the tests. Skill in analyzing and interpreting laboratory test results. Skill in the safe handling and use of chemicals. Skill in concise report writing.

Responsibility: for accurate analyses of chemical and residue properties; development and adoption of methods for chemical testing and analyses; documentation of procedures.

Prefer: Any combination of training and experience that meet the knowledge, skills, and abilities (KSAs) may be substituted. Typical ways to obtain the KSAs would be: A Bachelor's degree from an accredited college or university with a major or minor in chemistry or related field and one year experience in agricultural chemical analysis and research. A Master's degree from an accredited college or university in chemistry may substitute for one year of appropriate experience.