



New Mexico State Personnel Office

2600 Cerrillos Road
Santa Fe, New Mexico 87505-0127

Classification Description

PHYSICAL SCIENTISTS, ALL OTHER

<u>Class Title</u>	<u>Class Code</u>	<u>Pay Band</u>	<u>Alt Pay Band*</u>
Physical Scientist, All Other-B	F2099B	50	
Physical Scientist, All Other-O	F2099O	55	
Physical Scientist, All Other-A	F2099A	60	

**In accordance with SPB Rule 1.7.4.10 NMAC, the assignment to alternative pay bands shall be reviewed annually to determine their appropriateness.*

Occupation Description

All physical scientists not listed separately.

Nature of Work

Physical Scientists, all other administer the statewide emergency broadcast system. They establish methods and procedures for performing radiation safety tasks and inspections. They develop maintenance and calibration contracts of radiation detection instruments and radioactive materials. They monitor, inspect and provide technical assistance; develop and instruct safety programs for the public; as well as coordinate training courses in radiological defense and emergency response programs.

Distinguishing Characteristics of Levels

Examples of Work are intended to be cumulative for each progressively higher level of work. The omission of specific statements does not preclude management from assigning other duties which are reasonably within the scope of the duties.

Basic

- Employees in this Role operate the National Warning System, NACOM 1 Teletype, and radio communications.
- Employees conduct and operate monthly tests on emergency power systems.

Recommended Education and Experience for Full Performance

Associate's degree in Radiological Technologies or Health Physics with emphasis on radiation physics and radiation biology and two (2) years experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments.

Minimum Qualifications

High School diploma and one (1) year experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments.

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Operational

- Employees in this Role initiate and develop annual state maintenance and calibration contracts.
- Employees guide the operation and maintenance of calibration facilities and its instruments and equipment.
- Employees serve as a Radiation Protection Officer, which includes all facets of control involving radioactive isotopes.
- Employees prepare and assist in developing summaries of recommendations for the local communities.
- Employees instruct courses in radiological monitoring, shelter management, personal and family survival and medical self-help.
- Employees plan, organize and coordinate training of radiological defense and Emergency programs.
- Employees monitor, inspect, and provide technical assistance to local facilities.

Recommended Education and Experience for Full Performance

Associate's degree in Radiological Technologies or Health Physics with emphasis on radiation physics and radiation biology and four (4) years experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments.

Minimum Qualifications

High School diploma and two (2) years experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments.

Advanced

- Employees plan, organize and coordinate training of radiological defense and Emergency programs.
- Employees monitor, inspect, and provide technical assistance to local facilities.
- Employees in this Role prepare, negotiate, and administer a statewide emergency broadcast system.

Recommended Education and Experience for Full Performance

Bachelor's degree in Radiological Technologies or Health Physics with emphasis on radiation physics and radiation biology and two (2) years experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments.

Minimum Qualifications

Associate's degree in Radiological Technologies or Health Physics with emphasis on radiation physics and radiation biology, and two (2) years experience in radiological and hazardous materials including associated instrumentation, the repair and calibration of radiation detection instruments. Any combination of education from an accredited college or university in a related field and/or direct experience in this occupation totaling four (4) years may substitute for the required education and experience.

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Knowledge and Skills

*Note: This information has been produced by compiling information and documentation provided by O*NET. O*NET™ is a trademark of the U.S. Department of Labor, Employment and Training Administration.*

Knowledge

Geography — Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and distribution of plant, animal, and human life.

Computers and Electronics — Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.

Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Engineering and Technology — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Physics — Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.

Skills

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

Science — Using scientific rules and methods to solve problems.

Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Writing — Communicating effectively in writing as appropriate for the needs of the audience.

Monitoring — Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Speaking — Talking to others to convey information effectively.

Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Mathematics — Using mathematics to solve problems.

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Statutory Requirements: N/A

Conditions of Employment: Working Conditions for individual positions in this classification will vary based on each *agency's utilization, essential functions,* and the *recruitment needs* at the time a vacancy is posted. All requirements are subject to possible modification to reasonably accommodate individuals with disabilities.

Default FLSA Status: Non-Exempt. FLSA status may be determined to be different at the agency level based on the agency's utilization of the position.

Bargaining Unit: This position may be covered by a collective bargaining agreement and all terms/conditions of that agreement apply and must be adhered to.

Established: 07/07/2001 **Revised:** 9/20/2011

**Adapted from the United States Bureau of Labor Statistics and are intended to illustrate the typical education and experience required for this occupation.*

Note: Classification description subject to change. Please refer to the SPO website www.spo.state.nm.us to ensure this represents the most current copy of the description.