



Career Service Authority

Nuclear Medicine Technologist

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GENERAL STATEMENT OF CLASS DUTIES

Prepares and assists in administering radiopharmaceuticals, and scans patients using specialized nuclear medicine/radiological equipment to provide diagnostic information for physicians.

DISTINGUISHING CHARACTERISTICS

The *Nuclear Medicine Technologist* class prepares and administers radioactive isotopes utilizing a variety of radioisotope equipment, under direction of a physician. Incumbents calculate, measure and record radiation dosage or radiopharmaceuticals received, used and disposed following a physician's prescription.

Guidelines, Difficulty and Decision Making Level:

Guidelines are generally numerous, well established and directly applicable to the work assignment. Work assignment and desired results are explained by general oral or written instructions.

Duties assigned are generally repetitive and restricted in scope but may be of substantial intricacy. Employee primarily applies standardized practices.

Decisions or recommendations on non-standardized situations are limited to relating organizational policies to specific cases. Problems that are not covered by guidelines or are without precedent are taken up with the supervisor.

Level of Supervision Received and Quality Review:

Under general supervision, the employee receives assignments and is expected to carry them through to completion with substantial independence. Work is reviewed for adherence to instructions, accuracy, completeness and conformance to standard practice.

Interpersonal Communications and Purpose:

Contacts with persons under stress or emergency conditions where an immediate service is rendered according to established procedures or instructions.

Level of Supervision Exercised:

None.

ESSENTIAL DUTIES

Prepares radiopharmaceuticals for administration by injection, ingestion, and inhalation methods.

Administers and records isotope dosage accurately following established departmental procedures. Observes patient during procedure and reports any unusual occurrences to appropriate personnel.

Develops exposed film to produce scintillation scans using automatic equipment.

Positions patients and operates equipment to produce the most reliable and informational data; provides for proper radiation safety for patients

Assists in inventory control and ordering supplies.

Assists in training of Nuclear Medicine students.

Assists in the maintenance of established departmental policies and procedures, objectives, quality improvement, safety, environmental and infection control standards.

Performs other related duties as assigned or requested.

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Any one position may not include all of the duties listed.
However, the allocation of positions will be determined by
the amount of time spent in performing the essential duties
listed above.
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MINIMUM QUALIFICATIONS

Competencies, Knowledges & Skills:

Customer Service – Works with clients and customers (that is, any individuals who use or receive the services or products that your work unit produces, including the general public, individuals who work in the agency, other agencies, or outside organizations) to assess their needs, provide information or assistance, resolve their problems, or satisfy their expectations; knows about available products and services; is committed to providing quality products and services and evaluating customer satisfaction.

Medicine and Dentistry – Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptom, treatment alternatives, drug properties and interactions, and preventive health-care measures.

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

Reading – Understands and interprets written material, including technical material, rules, regulations, instructions, reports, charts, graphs, or tables; applies what is learned from written material to specific situations.

Writing – Recognizes or uses correct English grammar, punctuation, and spelling; communicates information (for example, facts, ideas, or messages) in a succinct and organized manner; produced written information, which may include technical material, that is appropriate for the intended audience.

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.

Biology – Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.

Chemistry – Knowledge of the concepts, principles, theories of the composition, structure, and properties of substances, and of the chemical processes and transformations, including uses of chemicals and their interactions, danger signs, production techniques, and disposal methods.

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

Public Safety and Security – Knowledge of intelligence operations; public safety and security operations; occupational health and safety; investigation and inspection techniques; or rules, regulations, precautions, and prevention techniques for the protection of people, data, and property.

Decision Making – Makes sound, well-informed, and objective decisions; perceives the impact and implications of decisions; commits to action, even in uncertain situations, to accomplish organizational goals; causes change.

Interpersonal Skills– Shows understanding, friendliness, courtesy, tact, empathy, concern, and politeness to others; develops and maintains effective relationships with others; may include effectively dealing with individuals who are difficult, hostile, or distressed; relates well to people from varied backgrounds and different situations; is sensitive to cultural diversity, race, gender, disabilities, and other individual differences.

Oral Communication – Expresses information to individuals or groups effectively, taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues, and responds appropriately.

Clerical – Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records, stenography and transcription, designing forms, and other office procedures and terminology.

Knowledge of the various ways in which radiopharmaceuticals may be dispensed to the patient sufficient to be able to prepare them.

Knowledge of departmental procedures sufficient to be able to administer established dosage

Knowledge of anatomy sufficient to be able to position patients and locate anatomical area to be imaged.

Knowledge of safety hazards and necessary safety precautions sufficient to be able to establish a safe work environment.

Skill in the use of automatic developing equipment used for developing nuclear medicine film.

Physical Demands:

Balancing: maintaining body equilibrium to prevent falling over
Eye/hand/foot coordination: performing work through using two or more
Feeling: perceiving attributes of objects by means of skin receptors.
Fingering: picking, pinching or otherwise working with the fingers
Handling: seizing, holding, grasping or otherwise working with hands
Hearing: perceiving the nature of sounds by the ear.
Pulling: exerting force on an object so that it is moving to the person
Pushing: exerting force upon an object so that the object is away
Reaching: extending the hand(s) and arm(s) in any direction
Repetitive motions: making frequent movements with a part of the body.
Stooping: bending the body by bending the spine at the waist
Lifting: raising or lowering an object from one level
Talking: expressing or exchanging ideas by means of spoken words.
Near vision: ability to see details at close range (within a few feet of the observer).
Accommodation: ability to adjust vision to bring objects into focus
Color vision: ability to distinguish and identify different colors
Depth perception: ability to judge distance and space relationships
Field of vision: ability to see peripherally

Working Environment:

Wet: frequent contact with water or other liquid
Hazards: conditions where there is danger to life, body, and/or health
Exposure to hazardous chemicals
Contact with patients under wide variety of circumstances
Exposed to a variety of electro-mechanical hazards
Exposed to explosive chemicals, gases and low level radiation
Exposed to hazards from electrical/mechanical/power equipment
Exposed to infections and contagious disease
Exposed to patient elements
Exposed to risk of blood borne diseases
May be exposed to radioactive substances

Education Requirement:

Completion of a two year hospital or college Nuclear Medicine program approved by the American Medical Association.

Experience Requirement:

None

Education/Experience Equivalency:

None.

Licensure and/or Certification:

Nuclear Medicine Technologist Certification through the American Registry of Registered Technologists (ARRT) or the Nuclear Medicine Technologists Certification Board (NMTCB) is required by completion of the probationary period.

CLASS DETAIL

FLSA CODE: Non-exempt

ESTABLISHED DATE: 09/16/1995

REVISED DATE: 11/16/2005

REVISED BY: Earline Hill

CLASS HISTORY: This classification revised into the new format.