Nuclear Medicine and Molecular Imaging Technology

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Competencies
Upon completion of an associate of applied science degree in nuclear medicine and molecular imaging technology, the graduate can:

General Education Competencies: (Competencies will be met at the level appropriate to the credential.)

I. Communicate Effectively
   1. Read and listen with comprehension.
   2. Speak and write clearly using standard English.
   3. Interact cooperatively with others using both verbal and non-verbal means.
   4. Demonstrate information processing through basic computer skills.

II. Think Critically
   1. Make connections in learning across the disciplines and draw logical conclusions.
   2. Demonstrate problem solving through interpreting, analyzing, summarizing, and/or integrating a variety of materials.
   3. Use mathematics to organize, analyze, and synthesize data to solve a problem.

III. Learn Independently
   1. Use appropriate search strategies and resources to find, evaluate, and use information.
   2. Make choices based upon awareness of ethics and differing perspectives/ideas.
   3. Apply learning in academic, personal, and public situations.
   4. Think creatively to develop new ideas, processes, or products.

IV. Examine Relationships in Diverse and Complex Environments
   1. Recognize the relationship of the individual to human heritage and culture.
   2. Demonstrate an awareness of the relationship of the individual to the biological and physical environment.
   3. Develop an awareness of self as an individual member of a multicultural global community.

Technical Competencies:

1. Prepare, dispense and administer routine radiopharmaceuticals under the supervision of appropriate personnel.
2. Demonstrate proper use and care of nuclear medicine instrumentation and ancillary equipment.
3. Analyze, reconstruct and format patient imaging data using nuclear medicine computer systems.
4. Perform routine diagnostic and therapeutic nuclear medicine procedures to include computed tomography in hybrid imaging techniques.
5. Demonstrate appropriate radiation safety precautions in relation to patients, personnel and the general public.
6. Record and maintain appropriate documentation for the operations of a nuclear medicine department.
7. Perform routine quality control and quality assurance procedures for nuclear medicine cameras, equipment and radiopharmaceuticals.