



The American Society of Radiologic Technologists represents more than 155,000 medical imaging technologists and radiation therapists across the nation. Our main mission as an organization is to advance and elevate the medical imaging and radiation therapy profession and enhance quality, safe patient care.



Who Are Medical Imaging and Radiation Therapy Professionals?

Medical imaging and radiation therapy are performed by health care professionals responsible for administering ionizing and nonionizing radiation for diagnostic, therapeutic or research purposes. Radiologic technologists perform a full spectrum of procedures using radiation and radiopharmaceuticals to acquire and analyze data needed for diagnosis at the request of and for interpretation by a licensed practitioner.

Radiologic technologists:

- ✔ Perform diagnostic imaging examinations or administer radiation therapy treatments.
- ✔ Receive education in anatomy, patient positioning, examination techniques, radiation safety, radiation protection and patient care.
- ✔ Independently perform or assist the licensed practitioner or radiologist assistant in the completion of diagnostic or therapeutic procedures.
- ✔ May specialize in a specific discipline, such as bone densitometry, cardiac interventional radiography, vascular interventional radiography, computed tomography, mammography, magnetic resonance imaging, nuclear medicine, sonography or diagnostic radiography.

Education and Training Requirements

To be a competent and qualified medical imaging professional, a radiologic technologist must have a diverse educational background that includes a thorough understanding of human anatomy and radiation physics to ensure the highest quality images are obtained with minimal radiation exposure to the patient.

Minimum requirements include but are not limited to:

- ✔ An associate degree from an accredited institution.
- ✔ Completion of an educational program in the discipline of their choice.
- ✔ Candidates must demonstrate competence in the applicable clinical procedures as part of the educational program and pass a nationally recognized credentialing exam accredited through the American Registry of Radiologic Technologists or similar nationally recognized credentialing organizations.

Visit [asrt.org](https://www.asrt.org) for more information



What Is the Scope of Practice for Radiologic Technologists?

The ASRT Practice Standards for Medical Imaging and Radiation Therapy are the premier practice standards for the medical imaging and radiation therapy profession. We recognize many professional standards certification programs, including the ARRT and Nuclear Medicine Technology Certification Board certifications.

The scope of practice delineates the parameters of practice and identifies the boundaries for practice. As medical imaging and radiation therapy professionals gain more experience, knowledge and clinical competence, the clinical activities may evolve.



The Scope of Practice of Medical Imaging and Radiation Therapy Professionals Includes but Is Not Limited To:

- ✓ Administering medications enterally, parenterally, through new or existing vascular or other routes as prescribed by a licensed practitioner
- ✓ Administering medications with an infusion pump or power injector as prescribed by a licensed practitioner
- ✓ Administering oxygen as prescribed by a licensed practitioner
- ✓ Applying principles of ALARA, as low as reasonably achievable, to minimize exposure to patient, self and others
- ✓ Applying principles of patient safety during all aspects of patient care
- ✓ Applying, implementing and monitoring artificial intelligence
- ✓ Assisting in maintaining medical records while respecting confidentiality and adhering to HIPAA and established policies
- ✓ Assisting the licensed practitioner or radiologist assistant with fluoroscopic and specialized radiologic procedures
- ✓ Corroborating a patient's clinical history with the procedure and ensuring information is documented and available for use by a licensed practitioner
- ✓ Educating and monitoring students and other health care providers
- ✓ Evaluating images for proper positioning and determining if additional images will improve the procedure or treatment outcome
- ✓ Evaluating images for technical quality and ensuring proper identification is recorded
- ✓ Identifying, calculating, compounding, preparing and/or administering medications as prescribed by a licensed practitioner
- ✓ Performing diagnostic radiographic and noninterpretive fluoroscopic procedures as prescribed by a licensed practitioner
- ✓ Performing point of care testing as prescribed by a licensed practitioner
- ✓ Performing venipuncture as prescribed by a licensed practitioner
- ✓ Providing education
- ✓ Providing input for equipment and software purchases and supply decisions when appropriate or requested
- ✓ Receiving, relaying and documenting verbal, written and electronic orders in the patient's medical record
- ✓ Selecting the appropriate protocol and optimizing technical factors while maximizing patient safety
- ✓ Starting, maintaining and/or removing intravenous access as prescribed by a licensed practitioner
- ✓ Using vein localization devices for placement of intravenous catheters when appropriate
- ✓ Verifying informed consent for applicable procedures



Visit [asrt.org](https://www.asrt.org) for more information