

Class Specifications  
for theIMAGING MULTIPLE MODALITY SPECIALIST  
SR-23; BU:13Definition:

This class reflects responsibility for utilizing imaging equipment in the performance of two (2) or more specialized modalities in accordance with policies and procedures, protocols, and quality standards. The position may work on rotating shifts, weekends and holidays and may require standby and call-back duty.

Distinguishing Characteristics:

An Imaging Multiple Modality Specialist performs imaging procedures in two (2) or more specialized modalities. The specialized modalities are: Angiography, Cardiac Catheterization, Computed Tomography, Echocardiography, Mammography, Magnetic Resonance Imaging, Nuclear Medicine, Radiation Therapy, Ultrasonography, and Vascular Sonography.

In contrast to an Angiography Specialist who specializes in both cardiac and radiology angiography services and performs diagnostic and interventional procedures, a Cardiac Catheterization Specialist is responsible for interventional coronary cases with an open-heart program in a hospital.

Imaging Modalities:

Angiography – Positions work in the Imaging, Angiography, or Cardiovascular Services Department of a hospital, medical imaging center, or outpatient clinic and specialize in both cardiac and radiology angiography services. Under the direction of a physician, duties may include, but are not limited to, the following: assisting physicians with diagnostic vascular, cardiac, neuro, and/or electrophysiology studies. For some positions, may also assist with interventional and therapeutic studies such as arterial stent placements, angioplasty, thrombolysis, embolizations, balloon pump insertion, organ biopsies and drainages, temporary and permanent pacemaker insertions, intra-cardiac ablations, chemo-embolizations, uterine fibroid embolizations, and insertion of left ventricular assist devices. This position may also be responsible for the administration of various contrast materials and ionizing radiation in a safe and effective manner in order to visualize anatomy in “real time” under fluoroscopy and lithotripsy procedures using ultrasonic and fluoroscopic equipment.

Cardiac Catheterization – Positions work in the Cardiovascular Services Department or Angiography or Cath Lab of a hospital and are responsible for assisting the physician with diagnostic and interventional cardiac catheterizations and the associated procedures. Procedures include, but are not limited to, the following: cardiac stent placement, thrombectomy, angioplasty, atherectomy, pericardiocentesis, ventricular assist device placement, balloon pump catheter placement, and arterial closure devices. Some positions may also assist with electrophysiology studies.

Computed Tomography (CT) – Positions work in the Imaging Department of a hospital, imaging center, or outpatient clinic and are responsible for performing various computed tomography procedures for imaging of human anatomy. This includes transferal and photographing of images, archiving posts, processing multiplanar, 3D vascular, and/or 3D-bone reconstruction, and performing appropriate protocols. This position may also perform imaging duties of operation of ionizing radiation-producing equipment for diagnostic imaging purposes in accordance with physician's orders, protocols, and quality standards as established by the department and facility.

Echocardiography – Positions work in the Imaging, Echocardiology, or Cardiovascular Services Department of a hospital or outpatient clinic or outpatient imaging center and are responsible for performing a variety of diagnostic procedures of the heart, including transthoracic echocardiograms, dobutamine, stress-testing, and trans-esophageal echocardiograms, using ultrasonic equipment to obtain diagnostic data for physician review and evaluation.

Mammography – Positions work in the Imaging Department of a hospital or outpatient imaging center and are responsible for performing mammographic examinations utilizing diagnostic imaging equipment in accordance with policies and procedures, protocols, and quality standards as established by the Mammography Quality Standards Act of 1992 (MQSA) and final guidelines revised. This position may also perform imaging duties of operation of ionizing radiation-producing equipment for diagnostic imaging purposes in accordance with physician's orders, protocols, and quality standards as established by the department and facility.

Magnetic Resonance Imaging (MRI) – Positions work in the Imaging Department of a hospital or outpatient imaging center and are responsible for performing clinical diagnostic magnetic resonance imaging and other procedures associated with the production of MRI images utilizing standard or modified imaging techniques in accordance with physician's ordered procedures, protocols, and quality standards as established by the department and facility.

Nuclear Medicine – Positions work in the Imaging Department of a hospital or outpatient imaging center and are responsible for performing the technical nuclear medicine procedures as an adjunct to the diagnosis and/or treatment of patients. Uses radioactive materials to diagnose and treat diseases.

Radiation Therapy – Positions work in the Oncology Center of a hospital or in an outpatient oncology center and are responsible for performing a variety of radiation therapy treatments, simulations, treatment planning, and fabrication of specialized treatment aids in accordance with the prescription and instructions of the physician.

Ultrasonography – Positions work in the Imaging Department of a hospital or outpatient imaging center or outpatient clinic and are responsible for producing images of internal body structures such as organs and tissues, using ultrasound equipment.

Vascular Sonography – Positions work in the Imaging or outpatient imaging center or outpatient clinic and are responsible for performing a variety of diagnostic procedures utilizing high-frequency ultrasound, Doppler, and/or physiologic pressures to assist physicians in the diagnosis of disorders of the circulatory system. Vascular exams include, but are not limited to, duplex imaging of peripheral, extracranial carotid, and intra-abdominal circulation and plethysmographic pressures of peripheral circulation.

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Duties Summary:

Independently performs the full range of specialized imaging procedures in two (2) or more specialized imaging modalities and performs other duties as required.

Examples of Duties:

Assessment duties include: confirms patient information and verifies the procedure prescribed; selects equipment for use in specialized imaging procedure setup according to specifications of procedure; determines optimal scanning parameters; explains process to patient and positions patient for procedure; ensures safe environment in accordance with established guidelines; ensures that imaging equipment and other related equipment comply with established guidelines; conducts a variety of specialized imaging procedures under the direction and supervision of a physician and/or higher level radiology specialist; maintains aseptic and isolation techniques; and discusses test results with supervisor or attending physician.

Quality Control duties include: completing procedures as requested in accordance with quality control standards; reporting equipment problems and unsafe conditions to the supervisor; restocking and maintaining assigned work station/equipment; and assisting in identifying operational problems and implementing changes.

Records Documentation duties include: documenting diagnostic and treatment data,

patient data, and any exceptions from established criteria or procedures; recording diagnostic or treatment data and performing routine archiving status checks and deleting data according to established guidelines; maintaining documentation of Quality Assurance (QA) activities, procedures, and results in accordance with established guidelines; and completing daily teleradiology tallies/documentation in accordance with established procedures.

Cross-trains and performs duties and responsibilities that are within the scope of practice allowed by their license in other imaging modalities, as required; maintains competencies within an appropriate time frame; and uses the principles of growth and development and pain management to assess patient needs and provide specific treatment and care.

Knowledge and Abilities Required:

Knowledge of: Thorough knowledge of imaging equipment and physics of specialized imaging procedures, safety, medical terminology, and department protocols. Thorough knowledge of standard precautions, hospital policies and procedures, rules and regulations, government regulatory requirements, and accrediting standards.

Basic knowledge of Cross-Sectional Anatomy required.

Ability to: Perform a full range of specialized imaging procedures in a specific specialty independently and provide instruction regarding specialized imaging procedures and radiation safety to lower-level specialists and other health care providers.

Code of Ethics: Ability to meet the specific needs of patients with a variety of disabilities; retain emotional stability and maturity despite emotional and physical pressures; demonstrated ability to use independent judgement and initiative. Ability to promote a positive, collaborative practice atmosphere. Adhere to the ARRT or ARDMS Code of Ethics.

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This is an amendment for the class IMAGING MULTIPLE MODALITY SPECIALIST to update language for the Imaging Modalities effective January 14, 2026.

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This is the first class specifications for the class, IMAGING MULTIPLE MODALITY SPECIALIST, effective March 16, 2014.

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APPROVED: 01/14/2026

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