

Class Specifications  
for theIMAGING MULTIPLE MODALITY SPECIALIST SERIESSeries Definition:

This is a multi-modality series applicable to all classes of positions whose primary duties are to utilize imaging equipment in the performance of two (2) or more specialized modalities in accordance with policies and procedures, protocols and quality standards. These positions may work on rotating shifts, weekends and holidays, and may require standby and call back duty.

Distinguishing Characteristics

Imaging Multiple Modality Specialists perform 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.

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 and specializes 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 Cath Lab of a hospital and is 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 and is responsible for performing various computed tomography procedures for imaging of human anatomy. This includes transferal and photographing of images, archiving post, 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 order's, protocols and quality standards as established by the department and facility and lithotripsy procedures using ultrasonic and fluoroscopic equipment.

Echocardiography - Positions work in the Imaging, Echocardiology, or Cardiovascular Services Department of a hospital or outpatient clinic and is responsible for performing a variety of diagnostic procedures including Echocardiogram, 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 and is responsible to perform 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 order's, protocols and quality standards as established by the department and facility and lithotripsy procedures using ultrasonic and fluoroscopic equipment.

Magnetic Resonance Imaging (MRI) – Positions work in the Imaging Department of a hospital and is responsible to perform 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 and is responsible for performing the technical nuclear medicine procedures as an adjunct to the diagnosis and/or treatment of patients.

Radiation Therapy – Positions work in the Oncology Center of a hospital and is responsible for performing a variety of radiation therapy treatments, simulations, treatment planning, and fabrication of specialized treatment aide in accordance with the prescription and instructions of the physician.

Ultrasound – Positions work in the Imaging Department of a hospital and is responsible to produce two-dimensional ultrasonic recordings of internal organs, using ultrasound equipment, for use by physician in diagnosis of disease and study of malfunction of organs.

Vascular – Positions work in the Imaging or Cardiovascular Services Department of a hospital or outpatient clinic and is 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, extra cranial carotid, and intra-abdominal circulation and plethysmographic pressures of peripheral circulation.

IMAGING MULTIPLE MODALITY SPECIALIST

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Duties Summary:

Independently performs a 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: complete procedures as requested in accordance with quality control standards; reports equipment problems and unsafe conditions to the supervisor; restocks and maintains assigned work station/equipment; and assists in identifying operational problems and implementing changes.

Records Documentation duties include: documents diagnostic, treatment, patient data and any exceptions from established criteria or procedures; records diagnostic or treatment data and performs routine archiving status checks and deletes data according to established guidelines; maintains documentation of Quality Assurance (QA) activities, procedures, and results in accordance with established guidelines; and completes daily teleradiology tallies/documentation in accordance with established procedures.

Cross trains and performs duties and responsibilities which are within the scope of practice allowed by their license, in other imaging modalities, as required; maintains competencies within 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 procedure, 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.

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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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