

RADIOLOGIC TECHNOLOGY**Health, Athletics, Wellness, and
Kinesiology Division**

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<http://www.cabrillo.edu/programs>**Program Description:**

Radiologic Technology Occupational Program This is a two-year Associate in Science Degree program providing professional training for radiologic technologists. Radiologic Technologists work in a professional environment at a hospital, clinic or private office. Skill categories include patient care, positioning, operating X-ray equipment, image quality, assessment, technical factors, and interacting with the general public, ancillary workers and physicians.

The RT Program is accredited by the Joint Review Committee on Education in Radiologic Technology and the state of California Department of Public Health. This program has earned the highest level of accreditation awarded by the JRCERT. A new class begins each year at the start of fall semester. Students who successfully complete the program are eligible for State Certification in Diagnostic Radiography and to take the State Permit exam in Fluoroscopy. Program graduation also provides eligibility to sit for the American Registry of Radiologic Technology (ARRT) national board examination. Program applications are accepted on a first come, first served basis.

Requirements for application include: Successful completion of the program prerequisites listed below, and the completion of the application process. Selection is based on completion of all required prerequisites with the appropriate GPA, clinical space available, and date of application. The program has a separate selection process and requires separate application in addition to the general College admission. For students not currently enrolled at Cabrillo College, general college application materials are available in the Admissions Office and on the Cabrillo College web site. Radiologic Technology program applications are available in the counseling and RT offices and on the RT web site. Two official transcripts must be sent with the program application. After reading the appropriate sections of the Cabrillo College *Catalog* and the Radiologic Technology program brochure, please contact the RT office at (831) 479-6461 for specific directions on application. Due to the course load, it is advisable to complete as many of the general education requirements as possible before entering the program. Meeting minimum requirements does not guarantee entry into the program as enrollment is limited due to hospital clinical space. Currently there is a shortage of radiologic technologists. Job opportunities are abundant in all modalities and well compensated.

A.S. Degree

Prerequisites	Units
BIO 4	Human Anatomy 4
BIO 5	*Human Physiology 4
PHYS 10	Introduction to Physics 3
PSYCH 1	General Psychology 3
MA 70	Medical Terminology 3
ENGL 1A/1AH/1AMC/1AMCH 3

*A course such as CHEM 30A or CHEM 32 is the prerequisite for BIO 5; Elementary Algebra (MATH 154) or placement into Intermediate Algebra (MATH 152) by assessment is a prerequisite to CHEM 30A or CHEM 32.

Please see a counselor or check www.assist.org for more information if you are interested in transfer to a 4-year university in Radiologic Technology. All prerequisite and published curriculum courses must be completed with a grade of "C" or better with the exception of MA 70, which requires a minimum grade of "B". These prerequisites may also be used to satisfy appropriate general education areas.

Elective Not Required for Radiologic Technology Degree

	Units
ALH 101	A Review of Anatomy and Physiology 2

Core Courses (63.75 Units)

RT 50	Introduction to Radiologic Technology/Patient Care 2
RT 50L	R.T. Patient Care Laboratory 0.25
RT 51	Radiographic Positioning I 2
RT 51L	Positioning Laboratory I 1
RT 52	Radiation Physics 2
RT 53A	Introduction to Radiologic Technology Laboratory/Clinic I 5.5
RT 53B	Radiologic Technology Lab/Clinic II 1.5
RT 53C	Radiologic Technology Laboratory/ Clinic III 5.5
RT 53D	Radiologic Technology Laboratory/ Clinic IV 8
RT 60	Principles of Radiographic Imaging 2
RT 60L	Applied Principles of Radiographic Imaging Lab 0.5
RT 61	Radiographic Positioning II 2
RT 61L	Radiographic Positioning Lab II 1
RT 62	Principles of Radiation Protection 2
RT 63	Advanced Positioning Lab/Clinic IV 8
RT 64	Advanced Positioning Lab/Clinic VI 1.5
RT 65	Advanced Positioning Lab/Clinic VII 8
RT 70	Principles of Fluoroscopy 1
RT 70L	Applied Principles of Fluoroscopy 0.5
RT 71	Radiographic Positioning III 2
RT 71L	Positioning Laboratory III 1
RT 72	Advanced Diagnostic Imaging Research 2
RT 73	Medical Imaging Pathology 1
RT 82	Advanced Diagnostic Imaging 1
RT 83	Preparation for State and National Boards 2
RT 175	Advanced Patient Care: Venipuncture for Radiographers 0.5

Electives-Magnetic Resonance Imaging		Units
RT 189A	Sectional Anatomy	1
RT 190	Magnetic Resonance Imaging (MRI) Physics . 3	
RT 191	Magnetic Resonance Imaging and Procedures 2	
RT 191L	Applied MRI Protocol and Procedures	0.5
RT 192	Magnetic Resonance Imaging Lab/Clinic	8
RT 193	Advanced Magnetic Resonance Imaging Lab/Clinic	13

Electives-Mammography Units		
RT 185	Principles of Mammography	2
RT 185C	Principles of Mammography Lab/Clinic	1
RT 185L	Principles of Mammography Lab	1

Elective-Sectional Anatomy Units		
RT 189A	Sectional Anatomy	1
RT 189AL	Sectional Anatomy Laboratory	0.5

Skills Certificate: Venipuncture		Units
RT 175	Advanced Patient Care: Venipuncture for Radiographers.	0.5

General Education Courses

This A.S. Degree requires completion of a 21-unit general education pattern (see Cabrillo College *Catalog* under Associate in Science Degree or the A.S. Degree worksheets available in Counseling Division or on the Transfer and Articulation website.) 21

A Bachelor of Science/Bachelor of Arts Degree from a regionally accredited college or university will satisfy all general education and competency requirements for Cabrillo’s non-transfer A.A. and A.S. Degrees, with the exception of the multicultural requirement and program specific graduation requirements.

Mathematics Competency Requirement

The A.S. Mathematics Requirement may be met by successful completion of intermediate algebra or equivalent or a higher-level mathematics course with a grade of “C” or better. Successful completion must be verified by an official college transcript or by an appropriate score on the Cabrillo mathematics assessment.

Multicultural Requirement

An approved multicultural course is required for graduation. This course may be double counted with general education or other program graduation requirements. Courses taken at other regionally accredited colleges can be used when approved by a Cabrillo counselor.

Security Screening

To comply with state and local regulations for health care providers, students accepted to the Cabrillo College Radiologic Technology program are required to meet vaccination and drug testing requirements and provide documentation to the Student Health Services Center before enrolling in the program. Students are also required to complete criminal background checks and may be required to undergo fingerprinting..

General Education Courses	21
Core Courses	63.75
Total Units	84.75

Radiologic Technology Courses

RT 50

Introduction to Radiologic Technology/Patient Care

2 units; 2 hours Lecture

Prerequisite: BIO 4; Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Introduces fundamentals of radiologic technology with emphasis on basic patient care. Includes topics related to appropriate care of patients for general radiographic procedures. Review of standard precautions, HIPAA, health management systems, medical ethics, and professional standards.

Transfer Credit: Transfers to CSU.

RT 50L

R.T. Patient Care Laboratory

0.25 unit; 0.75 hour Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Corequisite: RT 50.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Introduces the fundamentals of patient care in radiologic technology with laboratory instruction and demonstration of safe practices in medical imaging. Includes practical applications of radiation protection, body mechanics, contrast media preparation, vital signs, asepsis, HIPAA regulations, and standard precautions.

Transfer Credit: Transfers to CSU.

RT 51

Radiographic Positioning I

2 units; 2 hours Lecture

Prerequisite: Selection to Radiologic Technology Program.

Corequisite: RT 51L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Radiographic positioning and related anatomy of the chest, abdomen, upper and lower limbs. Includes basic radiographic terminology. Review of related pathologies and their radiographic appearances. Includes routine and non-routine radiographic procedures.

Transfer Credit: Transfers to CSU.

RT 51L

Positioning Laboratory I

1 unit; 3 hours Laboratory

Prerequisite: Selection to Radiologic Technology Program.

Corequisite: RT 51.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Apply radiographic anatomy and positioning of the chest, abdomen, upper and lower extremities. Structured, individualized instruction accompanied by laboratory demonstration. Principles of anatomy and physiology are applied to discussions and practice in problems in positioning.

Transfer Credit: Transfers to CSU.

RT 52**Radiation Physics**

2 units; 2 hours Lecture

Prerequisite: PHYS 10; Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100; Eligibility for MATH 154.

Provides a basic understanding of the physical principles underlying the production of X-rays and interaction with matter, a study of the fundamentals of: atomic structure, X-ray tubes, circuits, types, measurement and properties, types of X-ray machines, principles of magnetism, elements of electricity, electrical power, current, resistance, transformers, rectifiers and quality assessment.

Transfer Credit: Transfers to CSU.

RT 53A**Introduction to Radiologic Technology Laboratory/ Clinic I**

5.5 units; 16.5 hours Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Applies classroom theory (RT 51) and laboratory practice (RT 51L) in clinical education facilities by assignment. Participates in clinical introduction to radiographic procedures, radiology management systems, computerized patient systems and radiation safety and patient care under direct supervision.

Transfer Credit: Transfers to CSU.

RT 53B**Radiologic Technology Lab/Clinic II**

1.5 units; 4.5 hours Laboratory

Prerequisite: RT 53A.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Continuation of applied classroom theory (RT51) and laboratory practice (RT51L) in clinical education facilities by assignment. Participates in radiographic procedures, radiology management systems, computerized patient systems, basic radiation safety and basic patient care under direct supervision.

Transfer Credit: Transfers to CSU.

RT 53C**Radiologic Technology Laboratory/ Clinic III**

5.5 units; 16 hours Laboratory

Prerequisite: RT 53A.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Clinical application of classroom theory (RT 51 and 61) and laboratory practice (RT 51L and 61L) in clinical education facilities by assignment. The student radiographer, under direct supervision, participates in and/or performs radiographic procedures.

Transfer Credit: Transfers to CSU.

RT 53D**Radiologic Technology Laboratory/ Clinic IV**

8 units; 24 hours Laboratory

Prerequisite: RT 53C.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Applies classroom theory (RT 51 and 61) and laboratory practice (RT 51L and 61L) in clinical education facilities by assignment. The student radiographer, under direct supervision, participates in radiographic/fluoroscopic procedures, radiology management systems, computerized patient systems, radiation safety, and patient care.

Transfer Credit: Transfers to CSU.

RT 60**Principles of Radiographic Imaging**

2 units; 2 hours Lecture

Prerequisite: RT 52.

Corequisite: RT 60L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100; Eligibility for MATH 154.

Reviews the techniques employed in the use and control of x-ray equipment in radiographic procedures. Introduces darkroom chemistry, film processing, film/cassettes types and construction and the impact of contrast and density, and technique formulation. Studies the fundamentals of the photographic process; digital and computerized radiographic principles and general radiographic QA/QC.

Transfer Credit: Transfers to CSU.

RT 60L**Applied Principles of Radiographic Imaging Lab**

0.5 unit; 1.5 hours Laboratory

Prerequisite: RT 52.

Corequisite: RT 60.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Applies theory of RT 60 to the lab setting. Studies the effects of techniques and technique selection, radiographic film cassettes, intensifying screens, collimation, grid and Bucky use, darkroom procedures and processing. Reviews computerized radiography and digital radiography principles and application.

Transfer Credit: Transfers to CSU.

RT 61**Radiographic Positioning II**

2 units; 2 hours Lecture

Prerequisite: RT 51.

Corequisite: RT 61L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Teaches positioning principles, management of contrast media, related radiation protection, technical factors and nursing skills related to genitourinary, gastrointestinal tract, spine, ribs, sacrum and coccyx. Both routine and non-routine projections are presented.

Transfer Credit: Transfers to CSU.

RT 61L

Radiographic Positioning Lab II

1 unit; 3 hours Laboratory

Prerequisite: RT 51L.

Corequisite: RT 61.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Apply laboratory assignments as related to concurrent instruction in RT 61. Students apply positioning principles and criteria in a mock situation. Both routine and optional positions are presented.

Transfer Credit: Transfers to CSU.

RT 62

Principles of Radiation Protection

2 units; 2 hours Lecture

Prerequisite: RT 52.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Studies state and federal laws which govern and control the use of ionizing radiation and the manufacture and use of radiation equipment. An introduction to radiation protection with methods of protection from radiation for the patient and the technologist and radiobiology with emphasis on absorption of radiation and its effects upon biological tissue.

Transfer Credit: Transfers to CSU.

RT 63

Advanced Positioning Lab/Clinic IV

8 units; 24 hours Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Applies classroom theory (RT 51, 61, and 71) and laboratory practice (RT 51L, 61L, 71L) in clinical education facilities by assignment. The student under indirect/direct supervision where appropriate, participates in radiographic procedures, radiology management systems, computerized patient system, radiation safety, and patient care appropriate to the program level.

Transfer Credit: Transfers to CSU.

RT 64

Advanced Positioning Lab/Clinic VI

1.5 units; 5 hours Laboratory

Prerequisite: RT 63.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Applies classroom theory (RT 51, 61, and 71) and laboratory practice (RT 51L, 61L, 71L) in clinical education facilities by assignment. The student, under indirect/direct supervision where appropriate, participates in and/or performs radiographic procedures, radiology management systems, computerized patient system, radiation safety, and patient care appropriate to the program level.

Transfer Credit: Transfers to CSU.

RT 65

Advanced Positioning Lab/Clinic VII

8 units; 24 hours Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Applies classroom theory (RT 51, 61, and 71) and laboratory practice (RT 51L, 61L, 71L) in clinical education facilities by assignment. The student under indirect/direct supervision where appropriate, participates in radiographic procedures, radiology management systems, computerized patient system, radiation safety, and patient care appropriate to the program level.

Transfer Credit: Transfers to CSU.

RT 70

Principles of Fluoroscopy

1 unit; 1 hour Lecture

Prerequisite: ARRT/CRT License.

Corequisite: RT 70L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Provides an overview of the State of California Fluoroscopy regulations, radiation safety, equipment image intensifiers, closed circuit T.V., image recording devices, mobile image intensified units, anatomy and physiology of the eye and relative 3-D anatomy.

Transfer Credit: Transfers to CSU.

RT 70L

Applied Principles of Fluoroscopy

0.5 unit; 1.5 hours Laboratory

Prerequisite: ARRT/CRT License or 2nd year Radiologic Technology Student.

Corequisite: RT 70.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Studies scattered radiation effects, the appropriate use of collimation, fluoroscopic equipment selection and use, control of automatic brightness control (ABC), quality assurance practices, and quality control of radiographic and fluoroscopic equipment in Fluoroscopy laboratory.

Transfer Credit: Transfers to CSU.

RT 71

Radiographic Positioning III

2 units; 2 hours Lecture

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Apply Part III of the radiographic positioning course sequence including the cranium, facial bones, and paranasal sinuses.

Transfer Credit: Transfers to CSU.

RT 71L

Positioning Laboratory III

1 unit; 3 hours Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Apply Part III of the radiographic positioning laboratory course sequence, including the cranium, facial bones, and paranasal sinuses.

Transfer Credit: Transfers to CSU.

RT 72**Advanced Diagnostic Imaging Research**

2 units; 2 hours Lecture

Prerequisite: Selection to the Radiologic Technology Program.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Teaches the analysis of technically advanced imaging modalities including CT, MRI, PET and other imaging modalities.

Transfer Credit: Transfers to CSU.

RT 73**Medical Imaging Pathology**

1 unit; 1 hour Lecture

Prerequisite: RT 61.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

A survey of pathologies and their manifestations in medical imaging. Physiology of the human body as it relates to medical imaging and how pathology commonly impacts body functions are reviewed in case studies.

Transfer Credit: Transfers to CSU.

RT 82**Advanced Diagnostic Imaging**

1 unit; 1 hour Lecture

Prerequisite: RT 72.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Presents advanced radiographic procedures to include advanced modalities of computerized tomography, computed radiography, and angiography.

Transfer Credit: Transfers to CSU.

RT 83**Preparation for State and National Boards**

2 units; 2 hours Lecture

Prerequisite: Graduation from accredited RT program or 2nd year Radiation Technology Student.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Analyzes, evaluates and critiques the theory and practice of the following: care and management of the patient; radiologic analysis and positioning, radiation protection for radiography and fluoroscopy; darkroom chemistry; radiation physics, radiographic and fluoroscopic equipment, fluoroscopy principles and principles of radiographic techniques. Included is a comprehensive review of the State of California's Health, Title XVII regarding fluoroscopic radiation laws.

Transfer Credit: Transfers to CSU.

RT 175**Advanced Patient Care: Venipuncture for Radiographers**

0.5 unit; 0.5 hour Lecture, 0.5 hour Laboratory

Prerequisite: RT 61; Current CPR/Healthcare Provider Card; RT enrollment, ARRT or CRT.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 4 times.

Basic instruction and practice of venipuncture methods/procedures for the administration of contrast agents. Routes of administration, safety, basic pharmacology, dosage calculations and emergency procedures.

RT 184A-Z**Special Topics in Radiologic Technology**

1 - 3 units; 3 hours Laboratory

Prerequisite: Selection to the Radiologic Technology Program.

Repeatability: May be taken a total of 4 times.

Enrichment program in the radiologic sciences. Course is tailored to individual needs and interests as enrichment or expansion of subject area material through lab and/or field work, learning lab or directed reading. May be taken a total of four times or a maximum of 12 units of different topics.

RT 185**Principles of Mammography**

2 units; 2 hours Lecture

Prerequisite: CRT or ARRT license or within one year of graduation in a Radiologic Technology Program.

Corequisite: RT 185L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Studies the theory and practice of mammographic positioning, quality assurance/quality control, and imaging the anatomy and pathophysiology of the breast. Course prepares the student for the state and national certification exams in mammography.

RT 185C**Principles of Mammography Lab/Clinic**

1 unit; 3 hours Laboratory

Prerequisite: Certified Radiologic Technologist (CRT) or American Registry of Radiologic Technologists (ARRT) license or within one year of graduation in a Radiologic Technology Program.

Corequisite: RT 185, RT 185L.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Clinical application of classroom theory and laboratory skills (RT185 and RT185L) with practical use of Mammography patient and imaging protocols. Demonstration of competency in current mammographic practices to meet qualifications under the Mammography Quality Standards Act (MQSA Federal regulations) in conjunction with California state certification requirements.

RT 185L

Principles of Mammography Lab

1 unit; 3 hours Laboratory

Prerequisite: ARRT/CRT or 2nd year Radiologic Technology student.

Corequisite: RT 185.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Laboratory component to RT 185. Breast positioning and imaging techniques; quality control/quality assurance; operation of mammographic equipment; operation of dedicated automatic processor.

RT 189A

Sectional Anatomy

1 unit; 1 hour Lecture

Prerequisite: BIO 4.

Corequisite: RT 189AL.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Studies sectional human anatomy for health care professionals. Emphasis on transverse planes as related to sonography, computerized tomography and magnetic resonance imaging.

RT 189AL

Sectional Anatomy Laboratory

0.5 unit; 1.5 hours Laboratory

Corequisite: RT 189A.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Sectional human anatomy laboratory with practical application of the content and theories of RT 189A. Emphasis on multiplanar sections as related to sonography, computerized tomography and magnetic resonance imaging. Case studies utilizing various cross-sectional modalities will be presented. Concurrent enrollment in or prior completion of RT 189A.

RT 190

Magnetic Resonance Imaging (MRI) Physics

3 units; 3 hours Lecture

Prerequisite: ARRT certification or CRT License or 2nd year RT student; and CPR (Health Care Provider) certification and venipuncture certification.

Corequisite: RT 191.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Reviews the fundamentals of magnetic resonance imaging (MRI) principles. Includes study of T1-T2 relaxation, pulse sequences, image formation, contrast media and instrumentation.

RT 191

Magnetic Resonance Imaging and Procedures

2 units; 2 hours Lecture

Prerequisite: ARRT certification or CRT License or 2nd year RT student; and CPR (Health Care Provider) certification and venipuncture certification and RT 189A or equivalent.

Corequisite: RT 190.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 3 times.

Reviews common and specialty magnetic resonance imaging methodology and procedures. Studies magnetic resonance imaging with computer applications, scanner operations, and patient examination procedures.

RT 191L

Applied MRI Protocol and Procedures

0.5 unit; 1.5 hours Laboratory

Corequisite: RT 191.

Recommended Preparation: Eligibility for ENGL 100 and READ 100; Eligibility for MATH 154.

Repeatability: May be taken a total of 3 times.

Applies classroom theory (RT190 and RT191) to the lab setting. Studies the effects of computer applications, scanner operations and patient examination procedures on MRI.

RT 192

Magnetic Resonance Imaging Lab/Clinic

8 units; 24 hours Laboratory

Prerequisite: RT 190 RT 191.

Recommended Preparation: Eligibility for ENGL 100 and READ 100.

Repeatability: May be taken a total of 2 times.

Introduces clinical education in the practice of Magnetic Resonance Imaging procedures. Demonstration of competency of MRI current practices.

RT 193

Advanced Magnetic Resonance Imaging Lab/Clinic

13 units; 40 hours Laboratory

Prerequisite: RT 192.

Recommended Preparation: Eligibility for ENGL 100 and READ 100; Eligibility for MATH 154.

Provides advanced clinical education in the practice of Magnetic Resonance Imaging procedures and opportunity for student competency in MRI current practices.