**Introduction to Radiologic Technology: Course Project**

Author

Affiliation

Course

Instructor

Due Date

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**Introduction**

My name is Ebony Foote, and I am a committed student seeking a profession in healthcare, particularly in the field of radiology. My motivation stems from a deep desire to positively impact people’s lives, especially the less privileged who often go without good healthcare because of lack of information and institutionalized discrimination. My desire to provide top-notch patient care and my love for diagnostic imaging is what drove me to pursue a career as a radiologic technologist. My drive to improve in this sector stems from the chance to support the diagnosis and treatment process while guaranteeing the comfort and safety of patients. I am convinced that my practice will ensure holistic patient care that brings all stakeholders on board the process of securing lives by adhering to the highest moral and professional codes in the field of radiology.

**The American Registry of Radiologic Technologists (ARRT)**

The American Registry of Radiologic Technologists (ARRT) is a reputable credentialing body that carefully sets guidelines and manages tests for candidates seeking registration and certification in a variety of radiologic specialties. Currently, ARRT has over 350,000 registrants (ARRT.org home page – ARRT, n.d.). The ARRT acts as a beacon of professional validation, guaranteeing that radiologic technologists maintain the highest standards of competence and ethical conduct in their particular professions, thanks to its dedication to quality and proficiency in radiologic practice. Moreover, the ARRT is essential to maintaining the quality and integrity of radiologic services, which benefits patients, healthcare providers, and the general public by upholding strict standards and conducting thorough examinations.

**Purpose of ARRT Registration and Certification**

The main goal of ARRT registration and certification is to guarantee that radiologic technicians have the abilities, competencies, and information required to carry out their work safely and efficiently. The number of registered technicians has increased recently, and ARRT certification is a mark of competence that confirms a person’s training and experience in the radiologic field of choice. To increase registration and renewal, the organization’s renewal charges are $30 for the first discipline and $15 for additional disciplines, a cost lower than that of similar organizations (Annual Renewal – ARRT, n.d.). ARRT-certified technicians exhibit their dedication to maintaining the highest levels of patient care and professional competence by going through rigorous assessment procedures and adhering to strict requirements. Furthermore, the highest standards of quality and safety are met by radiologic services thanks to ARRT certification, which promotes trust between patients and healthcare professionals.

**Three Requirements for ARRT Registration and Certification**

**List**

* Completion of a radiologic technology education program that has been accredited.
* Adherence to the rules and ethical guidelines of ARRT.
* Passing the ARRT certification exam with distinction in the chosen radiologic specialty.

**Discussion of Requirement: Completion of an Accredited Educational Program**

To guarantee that people obtain thorough training and education in the profession, they must complete a recognized educational program in radiologic technology. Accredited programs give students essential academic knowledge and practical clinical experience while adhering to strict requirements established by certifying agencies. A comprehensive range of subjects, including anatomy, physiology, radiographic techniques, patient care, radiation safety, and picture interpretation, are covered in these programs and are crucial for radiologic practice (Thomas, 2020). Students get the theoretical knowledge and practical skills required to succeed as radiologic technologists through organized curriculum and clinical rotations. Along with emphasizing adherence to ethical standards and best practices, accredited programs train students to provide high-quality, patient-centered treatment while guaranteeing adherence to industry rules and safety procedures.

**Ongoing Requirements to Maintain Certification and Registration**

Radiologic technologists must fulfill some continuing requirements to maintain their ARRT certification and registration. These consist of earning continuing education credits, abiding by the ARRT Standards of Ethics, and continuing to comply with the Rules and Regulations (Haynes, 2020). Technologists must pay a subsidized renewal fee of between $15 and $30 and renew their qualifications yearly. Furthermore, members must keep up their registration and certification in a supporting discipline to renew their post-primary credentials. These specifications guarantee that certified technologists maintain ethical standards, stay current on industry developments, and are dedicated to their career’s growth and success. Overall, radiologic technologists maintain the integrity of their certification and guarantee their continued competence and skill in radiologic practice by carrying out the outlined stipulations.

**Components of Continuing Qualifications Requirements (CQR) List**

**Structured Self-Assessment**

The practice of organized self-assessment is utilized by radiologic technologists to appraise their knowledge and abilities related to their different fields. To improve their practice, radiologists must critically reflect on their professional competencies, pinpoint areas that need work, and create individualized learning objectives.   
**Professional Development Activities**

To stay up to date on developments in radiologic technology and patient care, radiologic technologists actively engage in continuing education programs. Attending conferences, workshops, seminars, online courses, and other events can help them broaden their knowledge, pick up new skills, and keep up with the rapidly changing technologies and practices in the industry.

**Performance Evaluation**

To evaluate radiologic technologists’ clinical abilities, adherence to best practices, and compliance with safety measures, the professionals undergo frequent performance reviews. By identifying areas of strength and progress, these evaluations help ensure that technicians in radiologic imaging operations uphold high standards of quality and safety (Haynes, 2020). Technologists consistently strive for excellence and contribute to the best possible patient outcomes through continuous assessment and feedback.

**Other Organizations for Continuing Education**

Continuing education opportunities abound for radiologic technologists, including those provided by prestigious associations like the American Society of Radiologic Technologists (ASRT) and the Radiological Society of North America (RSNA). To support technicians’ professional growth and knowledge extension, ASRT offers a wide range of educational tools, such as conferences and online courses. As to ASRT and RSNA, more than 153,000 and 53,000 professionals worldwide are members, demonstrating the organizations’ extensive recognition and impact on the radiologic community (RNSA, n.d.; ASRT, n.d.). Technologists can obtain continuing education credits and stay updated on new trends and best practices in radiologic imaging through ASRT’s and RSNA’s programs. Moreover, technologists can improve patient care, hone their skills, and further the radiologic profession by taking advantage of ASRT’s training initiatives.

**New Credential of Interest: Magnetic Resonance Imaging (MRI)**

After finishing the program in Radiologic Technology, I am excited to work on earning a Magnetic Resonance Imaging (MRI) credential. Magnetic resonance imaging (MRI) is a non-invasive imaging technique that uses radio waves and magnetic fields to create detailed images of the interior structures of the body (Katti et al., 2011). MRI creates high-resolution images that are essential for diagnosing many medical disorders by adjusting magnetic fields and detecting radiofrequency signals released by hydrogen atoms within the body’s tissues. Because of its adaptability and diagnostic powers, magnetic resonance imaging (MRI) is an essential tool in contemporary medicine, helping to identify and design treatments for a wide range of diseases. Intending to become an expert in MRI technology, I am excited to start the process of earning this credential. Once I have these skills, I will have more opportunities to contribute to diagnostic imaging procedures and patient care.

**Obtaining the MRI Credential**

I plan to pursue advanced training and education in MRI technology to get the MRI certification. This means taking further courses in MRI principles and procedures or enrolling in a post-graduate MRI certificate program. In addition, I will look for cross-training and practical experience in a clinical MRI setting to gain the knowledge and abilities necessary for competent MRI practice. My goal is to gain proficiency in MRI imaging via committed study and hands-on practice, which will enhance my professional skills and enable me to make a meaningful contribution to diagnostic imaging services.

**Conclusion**

Overall, my path to becoming a radiologic technologist represents a commitment to advancing professionally, learning throughout life, and providing the best possible care for patients in the field. Driven by fervor, tenacity, and a profound fascination with diagnostic imaging, I look forward to exploring this rewarding professional path. The potential for advancement and the chance to explore specialist fields like MRI technology, where I may develop my abilities and make a significant contribution to healthcare, is both fascinating and rewarding. Possessing an unwavering dedication to quality, I am ready to take on the chances and challenges that this exciting and fulfilling industry has to offer.

**References**

*American Society of Radiologic Technologists (ASRT)*. (n.d.). <https://www.asrt.org/>

*Annual Renewal - ARRT*. (n.d.). <https://www.arrt.org/pages/resources/maintaining-credentials/annual-renewal>

*ARRT.org home page - ARRT*. (n.d.). <https://www.arrt.org/#:~:text=THE%20AMERICAN%20REGISTRY%20OF%20RADIOLOGIC%20TECHNOLOGISTS%20(ARRT)&text=With%20approximately%20350%2C000%20registrants%2C%20we,each%20new%20credential%20we%20award>.

Haynes, K. W. (2020). The importance of professional values from radiologic technologists’ perspective. *Radiologic Technology*, *91*(6), 525-532.

Katti, G., Ara, S. A., & Shireen, A. (2011). Magnetic resonance imaging (MRI)–A review. *International journal of dental clinics*, *3*(1), 65-70.

*RSNA*. (n.d.). <https://www.rsna.org/>

Thomas, D. A. (2020). Education and Training of Radiologic Technologists. In *CRC Handbook of Management of Radiation Protection Programs, Second Edition* (pp. 395-409). CRC Press.