

ARRT Website

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Document 1:

January 2017 Content Specifications for the Radiography Examination

ARRT® BOARD APPROVED: JANUARY 2016
IMPLEMENTATION DATE: JANUARY 2017

B. Biological Aspects of Radiation

1. SI units of measurement
 - a. absorbed dose
 - b. dose equivalent
 - c. exposure
 - d. effective dose
 - e. air kerma
2. radiosensitivity
 - a. dose-response relationships
 - b. relative tissue radiosensitivities (e.g., LET, RBE)
 - c. cell survival and recovery (LD_{50})
 - d. oxygen effect
3. somatic effects
 - a. short-term versus long-term effects
 - b. acute versus chronic effects
 - c. carcinogenesis
 - d. organ and tissue response (e.g., eye, thyroid, breast, bone marrow, skin, gonadal)
4. acute radiation syndromes
 - a. hemopoietic
 - b. gastrointestinal (GI)
 - c. central nervous system (CNS)
5. embryonic and fetal risks
6. genetic impact
 - a. genetically significant dose
 - b. goals of gonadal shielding

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Document 2:

Cardiac-Interventional Radiography Clinical Experience Requirements (2017 Draft)

CLINICAL EXPERIENCE REQUIREMENTS EFFECTIVE JULY 1, 2017

Cardiac-Interventional Radiography

Candidates for certification and registration are required to meet the Professional Requirements specified in the *ARRT Rules and Regulations*. ARRT's Cardiac-Interventional Radiography Clinical Experience Requirements describe the specific eligibility requirements that must be documented as part of the application for certification and registration process.

The purpose of the clinical experience requirements is to verify that candidates have completed a subset of the clinical procedures within a discipline. Successful performance of these fundamental procedures, with mastery of the cognitive knowledge and skills covered by the examination provides the basis for the acquisition of the full range of clinical skills required in a variety of settings.

The job responsibilities typically required of staff cardiac-interventional radiography technologists are delineated through a periodic practice analysis. This results in a "task inventory." An advisory committee then determines the number of clinical procedures required to demonstrate adequate candidate experience in performing the tasks on the inventory.

Candidates for Cardiac-Interventional Radiography certification and registration must document performance of a minimum of 150 repetitions of cardiac-interventional radiography procedures according to the criteria noted below. Procedures are documented, verified and submitted when complete via an online tool accessible through My ARRT Info account on arrt.org. ARRT encourages individuals to obtain education and experience beyond these minimum requirements.

In addition, to ensure the highest level of patient care, candidates must document current advanced cardiac life support (ACLS) certification.

To qualify as a complete imaging procedure, the candidate must demonstrate active participation in a primary role throughout the entire procedure. Examples of primary roles include:

- scrubbing
- circulating
- monitoring

Completion of each procedure must be verified by a certified and registered technologist (post-primary certification not required), supervisor or licensed physician. The verification process is described within the online tool.

Document 3:

Annual Report of Registered Radiologist Assistant Examinations 2008

Index	2008	2008	2008
p_o	.88	.94	.87
p_c	.52	.70	.56
k	.75	.79	.71

The table indicates that candidates would be consistently classified as certified or not certified 88%, 94%, and 87% of the time in a theoretical three test situation. Given the very small numbers of examinees taking the R.R.A. examination and the mixed item format these values would seem to be reasonable. All summary statistics for the R.R.A. examination, however, should be interpreted cautiously given the small volume of exam candidates taking the exams for each of the three 2008 administrations.

Consistency Index	Jan 2008	June 2008	Sept 2008
p_o	.88	.94	.87
p_c	.52	.70	.56
k	.75	.79	.71

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Document 4:

Annual Report of Primary Exams 2013

Radiation Therapy	
<u>Section</u>	<u># Questions</u>
A Radiation Protection and Quality Assurance	35
B Clinical Concepts in Radiation Oncology	55
C Treatment Planning	55
D Treatment Delivery	25
E Patient Care and Education	30

exam is also reported using scaled scores. The primary purpose of the section scores is to provide information to examinees regarding their strengths and weaknesses in particular content categories. Pass/fail decisions are not made for individual sections of the exam. The only score that is important for pass/fail decisions is the total scaled score.

The *Primary Exam Results* report is no longer mailed to educational programs; it is available on the ARRT website. At this location you can also review exam results reports dating back to 2001, along with other statistical reports.

<http://www.arrt.org/examination/statistics>

***Results for the primary exams in Sonography and MRI are contained in separate reports.**

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