

Annual Structured Self-Assessment Report - 2024

Introduction

The purpose of Continuing Qualifications Requirements (CQR) is to assist Registered Technologists to document their continued qualifications in the categories of certification and registration held. To accomplish this purpose the continuing qualifications requirements are presented in three parts: the professional profile, the structured self-assessment (SSA) and continuing education (CE).

The purpose of the CQR SSA is to assist Registered Technologists identify gaps in the knowledge and cognitive skills underlying the intelligent performance of the tasks typically required for practice within the categories of certification and registration held and help direct their professional development efforts.

The SSA is made up of ten items for each content category. R.T.s who answer fewer than seven items correctly in a category are required to complete CE related to that content. The maximum amount of CE per category is determined by the overall number of items on that discipline's certification exam and the number of items within each section on that exam. The actual number of CEs prescribed is adjusted between three and seven correct answers (3 or fewer = 100%, 4 = 75%, 5 = 50%, 6 = 75%, 7 or more = 0%).

This report summarizes the results of certified and registered professionals attempting each SSA in 2024. Detailed results are included on subsequent pages for disciplines with three or more completed SSAs during the past year. Statistics for disciplines with fewer than three SSAs will be limited and are identified by an asterisk (*) in the count chart below.

The section-level, performance tables include the potential CE per category, mean raw score (out of 10), mean CE assigned, and the percent of R.T.s who did not receive CE for that section. In addition, the overall row reports total potential CE for the discipline, mean percent correct, mean total CE assigned, and the percent of R.T.s who did not receive CE for the entire SSA. If multiple content specifications were active during the report year, separate section-level tables will be provided for each content specification.

Updates

Updated content specifications went into effect January 2024 for Sonography and Vascular Sonography. You can read more in the <u>Updated Sonography Documents</u> and the <u>Updated Vascular Sonography Documents</u> news releases at ARRT.org.



SSA Counts						
Discipline	Test Center	Online	Total			
Radiography	6209	2369	8578			
Nuclear Medicine Technology	155	95	250			
Radiation Therapy	384	240	624			
Sonography	34	12	46			
Magnetic Resonance Imaging	1036	400	1436			
Mammography	732	219	951			
Computed Tomography	2574	906	3480			
Vascular Sonography	6	1	7			
Bone Densitometry	127	42	169			
Cardiac Interventional Radiography	33	15	48			
Vascular Interventional Radiography	193	71	264			
Breast Sonography	57	11	68			
Registered Radiology Assistant	12	13	25			

Radiography				
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	6	7.1	1.0	64.1%
Safety				
Radiation Physics and Radiobiology	4	6.1	1.2	41.5%
Radiation Protection	5	6.1	1.6	42.1%
Image Production				
Image Acquisition and Evaluation	5	5.9	1.8	36.5%
Equipment Operation and Quality Assurance	4	6.0	1.2	39.5%
Procedures				
Head, Spine, and Pelvis Procedures	3	6.3	0.9	46.8%
Thorax and Abdomen Procedures	4	7.2	0.6	67.0%
Extremity Procedures	5	6.2	1.5	45.2%
Overall (N = 8578)	36	63.4%	9.9	5.3%



Nuclear Medicine Technology					
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned	
Patient Care					
Patient Interactions and Management	4	7.6	0.4	73.6%	
Safety					
Radiation Physics, Radiobiology, and Regulations	5	5.8	2.0	34.8%	
Image Production					
Instrumentation	6	7.3	0.9	67.6%	
Procedures					
Radionuclides and Radiopharmaceuticals	5	7.1	0.9	63.2%	
Cardiac Procedures	4	7.0	0.7	63.6%	
Endocrine and Oncology Procedures	5	7.0	1.1	60.0%	
Gastrointestinal and Genitourinary Procedures	3	7.0	0.6	63.2%	
Other Imaging Procedures	4	7.6	0.5	71.6%	
Overall (N = 250)	36	70.3%	7.1	19.2%	

Radiation Therapy				
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	5	6.7	1.1	54.0%
Patient and Medical Record Management	3	6.9	0.6	60.6%
Safety				
Radiation Physics and Radiobiology	4	5.9	1.4	35.6%
Radiation Protection, Equipment Operation, and Quality Assurance	5	6.5	1.3	48.6%
Procedures				
Treatment Sites and Tumors	5	6.4	1.3	49.5%
Treatment Volume Localization	4	7.0	0.7	60.9%
Prescription and Dose Calculation	4	6.4	1.0	49.4%
Treatments	6	7.9	0.4	83.8%
Overall (N = 624)	36	67%	7.7	9.0%



Sonography				
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	3	8.4	0.1	89.1%
Image Production				
Basic Principles of Ultrasound	4	6.0	1.2	39.1%
Image Formation	5	6.4	1.2	58.7%
Evaluation and Selection of Representative Images	3	6.5	0.8	47.8%
Procedures				
Abdomen	7	6.7	1.6	54.3%
First Trimester Obstetrics	2	7.1	0.4	58.7%
Second/Third Trimester and High Risk Obstetrics	6	6.4	1.5	52.2%
Gynecology	3	7.5	0.2	78.3%
Superficial Structures and Other Sonographic Procedures	3	7.7	0.3	80.4%
Overall (N = 46)	36	69.6%	7.4	6.5%

Magnetic Resonance Imaging					
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned	
Patient Care					
Patient Interactions and Management	3	6.9	0.5	63.6%	
Safety					
MRI Screening and Safety	4	6.8	0.8	56.5%	
Image Production					
Physical Principles of Image Formation	7	6.3	2.1	47.6%	
Sequence Parameters and Options	6	5.8	2.2	37.7%	
Data Acquisition, Processing, and Storage	5	5.5	2.2	27.4%	
Procedures					
Neurological	5	6.5	1.3	50.8%	
Body	3	7.0	0.6	62.8%	
Musculoskeletal	3	7.2	0.4	68.7%	
Overall (N = 1436)	36	64.9%	10.1	7.8%	

Mammography				
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	2	8.1	0.1	87.5%
Image Production				
Image Acquisition and Quality Assurance	6	6.7	1.0	55.6%
Procedures				
Anatomy, Physiology, and Pathology	5	7.5	0.3	81.7%
Mammographic Positioning, Special Needs, and Imaging Procedures	7	8.0	0.4	86.3%
Overall (N = 951)	20	75.7%	1.8	38.6%

Computed Tomography					
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned	
Patient Care					
Patient Interactions and Management	4	8.1	0.3	83.6%	
Safety					
Radiation Safety and Dose	4	6.6	0.9	52.8%	
Image Production					
Image Formation	5	6.1	1.6	42.8%	
Image Evaluation and Archiving	4	6.5	1.0	52.4%	
Procedures					
Head, Spine, and Musculoskeletal	4	6.5	0.9	52.0%	
Neck and Chest	4	6.1	1.2	43.2%	
Abdomen and Pelvis	5	6.7	1.2	56.2%	
Overall (N = 3480)	30	66.5%	7.1	10.0%	



Vascular Sonography				
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	3	7.7	0.1	85.7%
Image Production				
Basic Principles of Ultrasound	4	7.4	0.3	71.4%
Image Formation	2	5.4	0.7	14.3%
Evaluation and Selection of Representative Images	6	6.1	1.5	42.9%
Procedures				
Abdominal/Pelvic Vasculature	3	6.4	0.6	71.4%
Arterial Peripheral Vasculature	4	8.6	0.1	85.7%
Venous Peripheral Vasculature	4	7.6	0.1	85.7%
Extracranial Cerebral Vasculature and Other Sonographic Procedures	3	6.7	0.6	42.9%
Overall (N = 7)	29	70.0%	4.1	0.0%

Bone Densitometry				
Content Category	Mean CE Assigned	No CE Assigned		
Patient Care				
Patient Bone Health, Care, and Radiation Principles	3	5.9	1.1	35.5%
Image Production				
Equipment Operation and Quality Control	4	6.7	0.8	58.6%
Procedures				
DXA Scanning	7	6.3	2.1	45.6%
Overall (N = 169)	14	62.9%	4.1	21.9%



Cardiac	Interventional	Radiography
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Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	7	6.9	1.2	66.7%
Image Production				
Image Acquisition and Equipment	4	6.9	0.6	66.7%
Procedures				
Diagnostic and Electrophysiology	6	7.0	0.9	75.0%
Procedures				
Interventional Procedures	9	7.8	0.8	77.1%
Overall (N = 48)	26	71.5%	3.6	43.8%

Vascular Interventional Radiography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	4	7.8	0.2	84.5%
Image Production				
Image Acquisition and Equipment	5	7.4	0.6	73.9%
Procedures				
Vascular Diagnostic Procedures	7	7.3	0.8	75.8%
Vascular Interventional Procedures	7	8.2	0.3	89.4%
Nonvascular Procedures	6	7.6	0.5	78.0%
Overall (N = 264)	29	76.8%	2.5	43.2%



Breast Sonography						
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned		
Patient Care						
Patient Interactions and Management	3	8.7	0.1	95.6%		
Image Production						
Basic Principles of Ultrasound	7	6.2	2.0	48.5%		
Image Formation	6	7.2	0.8	70.6%		
Evaluation and Selection of Representative Images	6	7.4	0.6	76.5%		
Procedures						
Anatomy and Physiology	3	7.3	0.4	67.6%		
Pathology	6	7.9	0.3	86.8%		
Breast Interventions	3	8.6	0.0	98.5%		
Overall (N = 68)	34	76.1%	4.1	22.1%		

Radiologist Assistant						
Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned		
Patient Care						
Patient Management	9	8.2	0.5	88.0%		
Pharmacology	4	6.6	0.9	48.0%		
Safety						
Patient Safety, Radiation Protection, and Equipment Operation	7	5.7	2.4	36.0%		
Procedures						
Abdominal	10	7.7	1.6	72.0%		
Thoracic	6	7.8	0.2	84.0%		
Musculoskeletal and Endocrine	6	6.3	1.4	36.0%		
Neurological, Vascular, and Lymphatic	6	6.1	1.7	44.0%		
Overall (N = 25)	48	69.1%	8.8	4.0%		

