



Annual Report of Examinations: Structured Self Assessment 2022

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 = 25%, 7 or more = 0%).

This report summarizes the results of certified and registered professionals attempting each SSA in 2022. 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.



SSA Counts

Discipline	Test Center	Online	Total
Radiography	6546	3364	9910
Nuclear Medicine Technology	158	123	281
Radiation Therapy	384	312	696
Sonography	32	22	54
Magnetic Resonance Imaging	920	446	1366
Mammography	724	261	985
Computed Tomography	2080	874	2954
Vascular Sonography	7	6	13
Bone Densitometry	144	45	189
Cardiac Interventional Radiography	24	21	45
Vascular Interventional Radiography	136	79	215
Breast Sonography	35	21	56
Registered Radiology Assistant	15	12	27

Radiography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	6	6.56	1.34	52.87%
Safety				
Radiation Physics and Radiobiology	4	5.82	1.39	34.89%
Radiation Protection	5	6.05	1.66	40.64%
Image Production				
Image Acquisition and Evaluation	5	5.70	1.96	33.10%
Equipment Operation and Quality Assurance	4	5.53	1.62	28.86%
Procedures				
Head, Spine, and Pelvis Procedures	3	6.10	0.99	43.12%
Thorax and Abdomen Procedures	4	6.77	0.79	58.57%
Extremity Procedures	5	5.83	1.88	37.65%
Overall (N = 9910)	36	60.45%	11.63	4.05%



Nuclear Medicine Technology

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	4	7.58	0.36	75.80%
Safety				
Radiation Physics, Radiobiology, and Regulations	5	5.95	1.72	43.77%
Image Production				
Instrumentation	6	7.08	1.09	65.84%
Procedures				
Radionuclides and Radiopharmaceuticals	5	6.93	1.01	62.28%
Cardiac Procedures	4	6.78	0.82	59.07%
Endocrine and Oncology Procedures	5	6.69	1.24	55.16%
Gastrointestinal and Genitourinary Procedures	3	7.01	0.59	65.48%
Other Imaging Procedures	4	7.56	0.48	71.53%
Overall (N = 281)	36	69.47%	7.31	16.73%

Radiation Therapy

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	5	6.75	0.99	57.61%
Patient and Medical Record Management	3	6.80	0.62	57.90%
Safety				
Radiation Physics and Radiobiology	4	5.78	1.43	38.22%
Radiation Protection, Equipment Operation, and Quality Assurance	5	6.25	1.41	43.97%
Procedures				
Treatment Sites and Tumors	5	6.41	1.26	49.43%
Treatment Volume Localization	4	6.95	0.68	62.64%
Prescription and Dose Calculation	4	6.36	0.96	47.41%
Treatments	6	7.93	0.47	81.47%
Overall (N = 696)	36	66.54%	7.83	5.75%



Sonography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	3	8.87	0.05	96.30%
Image Production				
Basic Principles of Ultrasound	5	6.67	1.06	53.70%
Image Formation	4	6.30	1.06	42.59%
Evaluation and Selection of Representative Images	2	6.98	0.32	64.81%
Procedures				
Abdomen	8	7.74	0.44	79.63%
First Trimester Obstetrics	2	7.65	0.10	81.48%
Second/Third Trimester and High Risk Obstetrics	6	6.91	1.03	61.11%
Gynecology	3	6.67	0.65	61.11%
Superficial Structures and Other Sonographic Procedures	3	8.33	0.14	90.74%
Overall (N = 54)	36	73.46%	4.85	16.67%

Magnetic Resonance Imaging

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	3	6.89	0.53	62.15%
Safety				
MRI Screening and Safety	4	6.57	0.87	52.64%
Image Production				
Physical Principles of Image Formation	7	6.42	1.89	51.61%
Sequence Parameters and Options	6	6.02	1.93	41.00%
Data Acquisition, Processing, and Storage	5	5.56	2.12	28.04%
Procedures				
Neurological	5	6.62	1.23	54.69%
Body	3	6.85	0.62	59.15%
Musculoskeletal	3	7.31	0.40	71.38%
Overall (N = 1366)	36	65.29%	9.60	6.30%



Mammography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	2	7.98	0.10	87.51%
Image Production				
Image Acquisition and Quality Assurance	6	6.76	0.98	58.78%
Procedures				
Anatomy, Physiology, and Pathology	5	7.51	0.35	81.73%
Mammographic Positioning, Special Needs, and Imaging Procedures	7	8.00	0.41	85.58%
Overall (N = 985)	20	75.61%	1.83	42.54%



Computed Tomography

January 1, 2022 - June 30, 2022

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	4	7.16	0.55	68.07%
Safety				
Radiation Safety and Dose	4	6.62	0.89	53.04%
Image Production				
Image Formation	5	6.19	1.50	45.09%
Image Evaluation and Archiving	5	5.30	2.34	23.17%
Procedures				
Head, Spine, and Musculoskeletal	4	5.61	1.53	31.68%
Neck and Chest	4	6.36	1.07	48.57%
Abdomen and Pelvis	4	6.61	0.88	53.91%
Overall (N = 1610)	30	62.64%	8.75	4.97%

July 1, 2022 - December 31, 2022

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	4	8.02	0.31	82.81%
Safety				
Radiation Safety and Dose	4	6.70	0.88	54.24%
Image Production				
Image Formation	5	6.23	1.52	46.50%
Image Evaluation and Archiving	4	6.61	0.85	55.95%
Procedures				
Head, Spine, and Musculoskeletal	4	6.62	0.85	54.54%
Neck and Chest	4	6.08	1.26	42.56%
Abdomen and Pelvis	5	6.67	1.25	54.76%
Overall (N = 1344)	30	67.07%	6.92	11.46%



Vascular Sonography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	4	8.08	0.08	92.31%
Image Production				
Basic Principles of Ultrasound	5	4.92	2.77	15.38%
Image Formation	3	5.00	1.58	23.08%
Evaluation and Selection of Representative Images	6	6.77	1.04	69.23%
Procedures				
Abdominal/Pelvic Vasculature	4	5.08	2.00	23.08%
Arterial Peripheral Vasculature	4	7.85	0.31	76.92%
Venous Peripheral Vasculature	3	5.69	1.19	30.77%
Extracranial Cerebral Vasculature and Other Sonographic Procedures	3	6.85	0.69	53.85%
Overall (N = 13)	32	66.97%	9.65	0%



Bone Densitometry

January 1, 2022 - June 30, 2022

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Bone Health, Care, and Radiation Principles	3	5.54	1.31	33.00%
Image Production				
Equipment Operation and Quality Control	4	5.66	1.52	32.00%
Procedures				
DXA Scanning	7	5.63	3.02	37.00%
Overall (N = 100)	14	56.10%	5.85	14%

July 1, 2022 - December 28, 2022

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Bone Health, Care, and Radiation Principles	3	6.22	0.98	42.70%
Image Production				
Equipment Operation and Quality Control	4	6.58	0.97	53.93%
Procedures				
DXA Scanning	7	6.22	2.30	46.07%
Overall (N = 89)	14	63.45%	4.25	22.47%

Cardiac Interventional Radiography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	6	6.33	1.47	55.56%
Image Production				
Image Acquisition and Equipment	6	7.71	0.53	80.00%
Procedures				
Diagnostic and Conduction System Studies	6	6.71	1.13	60.00%
Hemodynamics, Calculations, and Percutaneous Intervention	8	7.69	0.80	75.56%
Overall (N = 45)	26	71.11%	3.93	35.56%



Vascular Interventional Radiography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	5	7.28	0.60	71.63%
Image Production				
Image Acquisition and Equipment	5	6.80	1.06	60.93%
Procedures				
Vascular Diagnostic Procedures	9	6.80	1.84	58.60%
Vascular Interventional Procedures	6	7.41	0.63	73.49%
Nonvascular Procedures	4	7.40	0.47	71.16%
Overall (N = 215)	29	71.37%	4.60	25.58%

Breast Sonography

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Interactions and Management	3	8.64	0.02	98.21%
Image Production				
Basic Principles of Ultrasound	7	6.30	1.83	53.57%
Image Formation	6	7.62	0.48	76.79%
Evaluation and Selection of Representative Images	6	7.21	0.56	73.21%
Procedures				
Anatomy and Physiology	3	7.05	0.51	62.50%
Pathology	6	7.71	0.32	83.93%
Breast Interventions	3	8.25	0.02	98.21%
Overall (N = 56)	34	75.43%	3.74	25.00%



Radiologist Assistant

Content Category	Potential CE	Mean Raw Score	Mean CE Assigned	No CE Assigned
Patient Care				
Patient Management	8	7.07	1.04	70.37%
Pharmacology	6	7.04	1.17	55.56%
Safety				
Patient Safety, Radiation Protection, and Equipment Operation	6	7.00	0.78	62.96%
Procedures				
Abdominal Section	10	8.04	0.37	96.30%
Thoracic Section	7	7.22	1.20	70.37%
Musculoskeletal and Endocrine Sections	5	7.67	0.44	85.19%
Neurological, Vascular, and Lymphatic Sections	6	7.63	0.78	77.78%
Overall (N = 27)	48	73.81%	5.78	25.93%

