

**Hagerstown Community College  
Computed Tomography Program Assessment Plan**

<b>Program Outcome</b>	<b>Course Outcome</b>	<b>Course Outcome</b>	<b>Course Outcome</b>	<b>Course Outcome</b>	<b>Course Outcome</b>
<b>Upon completion of the certificate computed tomography program, the graduate will be able to:</b>	<b>RAD 212 Cross-Sectional Anatomy</b>  Upon completion of this course, the student will:	<b>RAD 215 Pathology for Imaging Sciences</b>  Upon completion of this course, the student will:	<b>RAD 218 Principles of CT Imaging</b>  Upon completion of this course, the student will:	<b>RAD 220 CT Imaging Practicum I</b>  Upon completion of this course, the student will:	<b>RAD 220A CT Imaging Practicum II</b>  Upon completion of this course, the student will:
<b>1. Provide appropriate patient care in the course of CT procedures with respect for diverse cultures, values and beliefs.</b>			State the responsibility, role and goals of the computed tomography technologist in the following aspects... a. using human principles of understanding b. communication and caring to make the computed tomography procedure a positive experience	Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.  Be able to satisfactorily complete a head, abdomen and pelvis procedure.	Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.  Demonstrate increased development of computed tomography skills, including the successful completion of chest, extremity, and some contrast studies.
<b>2. Competently perform routine imaging procedures.</b>			State the responsibility, role and goals of the computed tomography technologist in the following aspects... c. positioning of the patient for computed tomography	Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.  Demonstrate	Correctly prepare and conduct computed tomography procedures in the clinical setting under the in direct supervision of a certified technologist.  Demonstrate

			<p>d. describe the process of computed tomography image production</p> <p>e. describe the process of the required computer capabilities for image processing</p> <p>f. apply the basic concepts in performing a computed tomography procedure</p>	<p>knowledge of computed tomography anatomy, positions and procedures.</p> <p>Demonstrate the appropriate scanning sequences and contrast administration.</p> <p>Be able to satisfactorily complete a head, abdomen and pelvis procedure.</p>	<p>competency in the identification and performance of computed tomography positions and procedures, including the successful completion of chest, extremity, and some contrast studies.</p>
<p><b>3. Utilize appropriate radiation protection, safety practices, and standard precautions.</b></p>			<p>State the responsibility, role and goals of the computed tomography technologist in the following aspects of computed tomography...</p> <p>g. produce the highest quality images consistently at the lowest possible dose</p> <p>h. identify the non-ionic and iodinated contrast media, their chemical and physiological properties, and evaluate the risks.</p>	<p>Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.</p>	<p>Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.</p>
<p><b>4. Critique images to assure highest quality.</b></p>	<p>Given a cross-sectional image, correctly identify anatomy demonstrated and the image plane for different</p>		<p>State the responsibility, role and goals of the computed tomography technologists in the following aspects of</p>	<p>Select the appropriate image contrast and window levels needed to produce quality computed tomography images and demonstrate pathology</p>	<p>Select the appropriate image contrast and window levels needed to produce quality computed tomography images and demonstrate</p>

	anatomical sections.		computed tomography... g. producing the highest quality images consistently at the lowest possible dose, utilizing appropriate quality assurance/quality control in computed tomography and identify imaging artifacts and determine the technical adjustment required for correction.	under the direct supervision of a certified technologist.  Correctly perform, evaluates and records all required quality control tests in computed tomography  Identify basic anatomy, physiology and pathology of the body areas on CT images.	pathology under the indirect supervision of a certified technologist.  Demonstrate competency in the performance, evaluation and recording of all required quality control tests in computed tomography
<b>5. Communicate effectively with staff and patients.</b>				Utilize the appropriate rules of conduct concerning communication and interpersonal relationships	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships
<b>6. Be able to solve age-specific, disease-specific and non-routine imaging situations.</b>		Identify pathology from the musculoskeletal, neck/thorax and abdominopelvic body sections		Select the appropriate image contrast and window levels needed to produce quality computed tomography images and demonstrate pathology under the direct supervision of a certified technologist.	Select the appropriate image contrast and window levels needed to produce quality computed tomography images and demonstrate pathology under the direct supervision of a certified technologist.
<b>7. Make critical decisions appropriate for the medical imager.</b>			State the responsibility, role and goals of the computed tomography technologist in the following aspects of computed tomography... g. produce the highest quality images	Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.	Correctly prepare and conduct computed tomography procedures in the clinical setting under the direct supervision of a certified technologist.

			consistently at the lowest possible dose h. identify the non-ionic and iodinated contrast media, their chemical and physiological properties, and evaluate the risks		
<b>8. Perform as an effective team member.</b>				Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.  Demonstrates expected teamwork practices	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.  Demonstrates expected teamwork practices
<b>9. Practice within the ethical framework of the profession.</b>				Document satisfactory performance on affective clinical assessments	Document satisfactory performance on affective clinical assessments
<b>10. Meet the imaging needs of the community.</b>					Satisfactorily meet all required program requirements in computed tomography and successfully pass the national certification in computed tomography and seek employment as a computed tomography technologist