

# Linking PSLOs, Assessment Methods, and Reports/Use Computed Tomography 2017-2018 AY

Community College of Denver

## **Computed Tomography Program**

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## Mission of the Computed Tomography Program

The mission of the Computed Tomography Certificate Program within the Radiologic Sciences Program, is to pledge to provide the health care community with ethical, competent, and professional computed tomography technologists.

## Program Student Learning Outcomes

In the computed tomography program, all program student learning outcomes (PSLO) are mapped to CCD's institutional outcomes.

**PSLO 1:** RTE CT students will identify the components of the imaging equipment through an embedded online labeling activity. They will apply their knowledge through an online quiz which includes specific questions about the function and purpose of each part of the equipment. (mapped to ethical and effective user of technology)

**PSLO 2:** RTE CT students will demonstrate evidence of complex thinking skills through a comprehensive case study that starts with the scheduling of a patient, preparation, applied protocols, image acquisition, examination review, pathology, reporting, to final prognosis. (mapped to complex thinker)

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## Curriculum Map

	RTE 257 CT Basics	RTE 280 CT Internship I	RTE 280 CT Internship II	RTE 280 CT Internship III if applicable	RTE 280 CT Internship IV if applicable	RTE 280 CT Internship V if applicable
<p><b>1. Complex Thinker</b>            CT Students will demonstrate critical thinking and problem solving skills in through image analysis, construction of protocols and processes, and image acquisition based on patient variables.</p>	I E A	I E	E C A	N/C or C	N/A or C	N/A or C
<p><b>2. Effective and Ethical User of Technology</b>            CT Students will exhibit technical literacy of computed tomography equipment in the didactic and clinical setting.</p>	I E A	I E A	E C A	N/C or C	N/C or C	N/C or C

Key :

I + Introduced

E= Emphasized

C= Competent

A= Currently Formally Assessed

N-not applicable

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## Assessment Plan

Below is a table of how each PSLO is assessed and how the results are reported.

PSLO	Assessment measure, how?	Population, whom?	Reporting
<p>1. RTE CT students will identify the components of the imaging equipment through an embedded online labeling activity. They will apply their knowledge through an online quiz which includes specific questions about the function and purpose of each part of the equipment.</p>	<p>RTE 257 CT Basics will use two assessments to measure this learning outcome. One as an equipment labeling activity. The number of attempts and time to complete will be measured until this the activity is completed. The second assessment will using the scores of a 30 question multiple choice quiz. Scores must be 80% to progress. RTE 280 Internships will use a Professional Development Assessment tool to measure the clinical skill and use of the CT equipment. The section used in the evaluation has a value of 15 points. No benchmarks set at this time, since this is a new program and</p>	<p>Computed Tomography certificate students. These students are registered through the American Registry of Radiologic Technologists (ARRT) and have been employed in the profession for a minimum of one year and are obtaining post-primary certification.</p>	<p>CT Program Coordinator/ Instructor will evaluate the outcomes which could lead to a change in curriculum if warranted.</p> <p>Results will be discussed with the RTE Advisory Board</p>

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	clinical internships begin mid-October.		
2. RTE CT students will demonstrate evidence of complex thinking skills through a comprehensive case study that starts with the scheduling of a patient, preparation, applied protocols, image acquisition, examination review, pathology, reporting, to final prognosis.	RTE 257 will use two assessments to measure this student learning outcome. A short answer quiz with a value of 30 points requiring a score of 80 % to proceed. A multiple choice exam given with a value of 30 points requiring a score of 80% to proceed. RTE 280 Internship II Case Study graded with rubric which is a final evaluation to demonstrate program competency.	Computed Tomography certificate students. These students are registered through the American Registry of Radiologic Technologists (ARRT) and have been employed in the profession for a minimum of one year and are obtaining post-primary certification.	CT Program Coordinator/ Instructor will evaluate the RTE 257 outcome which could lead to a change in curriculum if warranted. The CT Coordinator will evaluate the outcome of the final case study project which could lead to a change in curriculum if warranted.  Results will be discussed with the RTE Advisory Board

### Time Line (Schedule) of when each will be assessed

CT PSLO 1 First semester (didactic course RTE 257) and during the first and second internships, which occur consecutively after the didactic course is successfully completed.

CT PSLO 2 First semester and Second or final internship, whichever comes first as determined by the CT lead/clinical coordinator.

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### **What do you do with the results – how do you use them to improve the program?**

The collected data trends and results are discussed with the RTE faculty during the RTE Assessment meetings that occur twice a semester in early fall and late spring. Next, a report is written by the RTE Program Director during the summer semester that includes the trends and benchmarks. The results are also discussed at the monthly faculty/clinical instructor meetings and changes are made as necessary, to the course, the assessment rubric, or the program, either immediately or applied in the following academic year.

The written report, which includes recommendations or changes, is shared with the RTE Advisory Board members through email early fall semester with any solicited comments. The prior year plan results are discussed at the Fall Advisory Board meeting, as well as the current plan, with any revisions for the next academic year.

The 2017-18 AY is the first cycle for the CT PSLO's and will be assessed for a three year cycle to check for trends and benchmark attainment, which could include modifications. When the loop is closed, other assessments will be developed.