

## Course Outcomes Guide

**Course/Program Title:** RAD 102 Radiography II

**Date:** Fall 2016

**Course/Program Team:** D. Carroll

**Expected Learning Outcomes:**

The student will

1. identify the components of an x-ray unit and circuitry and their function.
2. state the guidelines for and demonstrate safe operation of a radiographic unit.
3. identify the accessories utilized to enhance the production of quality radiographic images and their function.
4. explain the impact prime radiation exposure factors have on the production of quality radiographic images.

**Assessment:** How do or will students demonstrate achievement of each outcome?

Classroom activities, Verbal questions, worksheets, Midterm and final exam

**Validation:** (What methods have you used or will you use to validate your assessment?)

Course completion with 75% or higher. All students completed

**Results: Number of students assessed 26 students**

	FA 13	FA 14	FA 15	FA16
RAD 102 Final Exam Questions				
#64 anode	24/28 = 86%	19/28=68% *	26/29=90%	24/26 92%
#65 x-ray quality	21/28 = 75%	28/28=100%	28/29=97%	24/26 92%
#40 tube current	24/28 = 86%	28/28=100%	29/29=100%	21/26 81%
#99 mAs	28/28 = 100%	26/28=93%	26/29=90%	21/26 81%
#11 kVp	28/28 = 100%	24/28=86%	28/29=97%	22/26 85%
#28 distance	25/28 = 89%	25/28=89%	29/29=100%	17/26 65%*
#98 primary barriers	28/28 = 100%	24/28=86%	27/29=93%	26/26 100%
#55 collimation	22/28 = 79%	28/28=100%	23/29=79%*	25/26 96%
#13 patient dose	17/28 = 61%	27/28 96%	28/29=97%	25/26 96%
#51 gonad shields	28/28 = 100%	27/28=96%	28/29=97%	26/26 100%
#20 15% rule	28/28 = 100%	28/28 100%	29/29=100%	25/26 100%
#3 reducing dose	27/28 = 96%	28/28 100%	27/29=93%	22/26 85%
#26 patient exposure	23/28 = 82%	24/28 86%	29/29=100%	26/26 100%
#12 destructive conditions	22/28 = 79%	28/28 100%	28/29=97%	23/26 89%
#97 tissue conditions	17/28 = 61%	28/28 100%	29/29=100%	26/26 100%

**Follow-up:** Continuous assessment of class

**Distance and exposure needs reinforced, tube current and mas needs reviewed more**

**Budget Justification:** None