

## Course Outcomes Guide

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

**Date:** Fall 2014

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

### Expected Learning Outcomes:

The student will

- a. identify the components of an x-ray unit and circuitry and their function.
- b. state the guidelines for and demonstrate safe operation of a radiographic unit.
- c. identify the accessories utilized to enhance the production of quality radiographic images and their function.
- d. 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 28 students**

	<b>FA 13</b>	<b>FA 14</b>
RAD 102 Final Exam Questions		
#4 anode #100	24/28 = 86%	19/28=68% *
#4#44 x-ray quality #61	21/28 = 75%	28/28=100%
#45 tube current #68	24/28 = 86%	28/28=100%
#46 mAs #48	28/28 = 100%	26/28=93%
#48 kVp #49	28/28 = 100%	24/28=86%
#22 distance #75	25/28 = 89%	25/28=89%
#23 primary barriers#47	28/28 = 100%	24/28=86%
#25 collimation#38	22/28 = 79%	28/28=100%
#26 patient dose#12	17/28 = 61%	27/28 96%
#28 gonad shields #24	28/28 = 100%	27/28=96%
#48 15% rule # 53	28/28 = 100%	28/28 100%
#52 reducing dose #98	27/28 = 96%	28/28 100%
#53 patient exposure#19	23/28 = 82%	24/28 86%
#75 destructive conditions #68	22/28 = 79%	28/28 100%
#76 tissue conditions #57	17/28 = 61%	28/28 100%

**Follow-up:** Continuous assessment of class #4 Need to stress that x-rays are photons, from the anode

**Budget Justification:** None