

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Clinical Education XI

Prefix and Course Number: RAD 157

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Discuss proper patient preparation for various CT examinations.
- Properly evaluate and monitor patients having a CT Scan
- Outline Radiation Safety as it pertains to scanning parameters for a variety of exams.
- Competently perform CT scan examinations as outlined in the ARRT Exam Certificate Specifications.
- Define equipment requirements and instrumentation physics utilized in CT Scanning
- Discuss cross sectional anatomy and pathology demonstrated on CT images.

Course Outline:

- I. While performing the CT imaging procedures the candidate must demonstrate appropriate:
 - A. Evaluation of requisite and/or medical record
 - B. Preparation of examination room
 - C. Identification of patient
 - D. Patient assessment and education concerning the procedure
 - E. Documentation of patient history including allergies
 - F. Patient positioning
 - G. Protocol selection
 - H. Parameter selection
 - I. Image display, filming and archiving
 - J. Documentation of procedure treatment and patient date in appropriate record
 - K. Patient discharge with post-procedure instructions
 - L. Universal precautions
 - M. Radiation protection
 - N. Preparation and/or administration of contrast media
- II. During and after the CT examination imaging the student should be able to evaluate the resulting images for:
 - A. Image quality (e.g., motion, artifacts, noise)
 - B. Optimal demonstration of anatomic region (e.g., delayed imaging, reconstruction spacing, algorithm, slice thickness)
 - C. Exam completeness.