

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

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**Course Title:** Clinical Education X

**Prefix and Course Number:** RAD 156

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**Course Learning Outcomes:**

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

- Discuss proper patient preparation for basic CT examinations.
- Properly evaluate and monitor patients having a CT Scan
- Outline Radiation Safety as it pertains to scanning parameters for the basic CT exams.
- Competently perform basic 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.