

Course Description

RTE2563 | Radiographic Positioning 3 | 2 credits

The purpose of this course is to introduce students to specialized imaging modalities, contrast media examinations, special trauma views, and protocols not commonly seen in radiology department. Additionally, students are required to successfully complete the following competencies: (1) Venipuncture, (2) Sterile and Aseptic Technique.

Course Competencies

Competency 1:

The student will be able to adapt radiographic procedures based on special considerations by:

- identifying alternative techniques used to radiograph age-specific groups
- modifying routine radiographic procedures for management of various types of trauma situations
- identifying alternative techniques used to radiograph patients with various types of disabilities.
- adapting procedures to meet cultural needs of patients
- modifying directions to patients with various communication problems

Learning Outcomes:

- Communication
- Critical thinking
- Information Literacy

Competency 2:

The student will be able to demonstrate a functional knowledge required to perform accurate special fluoroscopic procedures such as arthrography, biliary duct procedures, HCG, myelography, by:

- describing the general purpose of each fluoroscopic study
- explaining the patient preparation and patient assessment necessary for each of the special procedures
- discussing equipment and supplies necessary to complete special fluoroscopic procedures.
- describing the routine and special positions/projections for each of the special fluoroscopic procedure
- naming the type, dosage and route of administration of contrast media
- describing the indications and contraindications to contrast media agents
- applying general radiation safety and protection practices associated with fluoroscopic examinations

Learning Outcomes:

- Communication

- Numbers / Data
- Critical thinking
- Information Literacy

Competency 3:

The student will be able to demonstrate a functional knowledge and accurate application of the venipuncture procedures and aseptic techniques as it relates to radiologic science by:

- differentiating between the two major sites of intravenous drug administration
- describing complications associated with venipuncture and appropriate resolving actions
- discussing various elements of initiating and discontinuing intravenous access
- preparing injection site for injection of intravenous medications using aseptic technique
- simulating of appropriate venipuncture technique
- performing appropriate sterile gowning and gloving
- demonstrating proper care of the sterile trays commonly used in radiography
- explaining common sterile techniques for the surgical use of C-arm

Learning Outcomes:

- Critical thinking
- Information Literacy
- Computer / Technology Usage