



Course Description

RTE1513 | Radiographic Positioning 2 | 3.00 credits

This course follows RTE 1503 and further develops the knowledge and skills required for the radiographer. Positioning and Radiographic anatomy of the spinal column, bony thorax, GI and urinary system, skull and facial bones will be added to the knowledge and skills acquired in RTE 1503.

Course Competencies

Competency 1: The student will be able to demonstrate a functional knowledge required to perform accurate radiographic procedures of the spinal column, bony thorax, skull and facial bones by:

1. Appropriately identifying the routine and special views for each anatomical part
2. Describing the general purpose of each radiographic study
3. Describing the correct patient positions for each routine and special examination
4. Defining the rule for table-top vs. bucky for each examination
5. Defining the centering points, CR angle and SID for each routine and special examination
6. Selecting suitable technical factors to produce quality diagnostic images with the lowest radiation exposure possible

Competency 2: The student will be able to demonstrate a functional knowledge required to perform accurate fluoroscopic procedures of the GI and urinary system by:

1. Listing all organs of GI and urinary pertinent to the examination and describing its function
2. Describing the general purpose of each fluoroscopic study
3. Explaining the patient preparation and patient assessment necessary for various GI and urinary system studies
4. Discussing equipment and supplies necessary to complete GI and urinary fluoroscopic procedures.
5. Describing the routine and special positions/projections for all fluoroscopic GI and urinary procedures
6. naming the type, dosage and route of administration of contrast media commonly used to perform GI and urinary radiographic contrast studies
7. Describing the indications and contraindications to contrast media agents
8. Applying general radiation safety and protection practices associated with fluoroscopic examinations

Competency 3: The student will be able to evaluate images for positioning, centering, appropriate anatomy and overall image quality by:

1. Identifying specific anatomy of the spinal column, bony thorax, GI and urinary system, skull and facial bones
2. Identifying the structures demonstrated on routine fluoroscopic images
3. Defining region of interest
4. Describing the criteria of evaluating the radiograph for accurate AP/PA, oblique, and lateral positions
5. Discriminating between acceptable and unacceptable radiographs for collimation, exposure factors, and positioning errors

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively