

**RADIOLOGIC TECHNOLOGY**  
**RADIOLOGY PATIENT CARE PROCEDURES (RAD 102)**  
**Credit Hours: 2.0**  
**Lecture Hours: 1.0**  
**Lab Hours: 3.0**  
**Date: 01/05**

**DL ATTENDANCE/VA STATEMENT**  
**TEXTBOOK INFORMATION**

**COURSE DESCRIPTION**

This course provides a study of the procedures and techniques used in the care of the diagnostic imaging patient.

**COURSE COMPETENCIES**

**Module I:**

**Body Mechanics , Suctioning and support equipment**

1. Demonstrate correct manner of transferring patient:

- A- from wheelchair to x-ray table
- B- from x-ray table to wheelchair
- C- from stretcher to table
- D- from table to stretcher

while preventing injury to self and patient 100% of the time.

2. List four safety factors that must be considered when moving a patient.
3. Explain proper method of transfer for a patient with a gastric tube
4. Explain patient preparation for insertion of gastric tube
5. Explain the precautions that the RT must take when working with the patient who has a tracheostomy tube in place.
6. Explain the precautions that the RT must take when working with a patient who has a chest tube in.
7. Differentiate the types of support equipment/suction devices found in standard radiology department experience and their patients.

**Module II:**

**Administration of Enemas**

1. List precautions that must be considered and taken when assisting with the administration of an enema.
2. Understand and explain special care for ostomy patient's receiving enemas.
3. Understand and convey to the patient the requirements for patient preparation prior to receiving rectal contrast.
4. Explain the procedure for the administration of a barium enema for patient understanding and consent.
5. Simulate the insertion of a rectal enema tip.

**Module III:**

**Vital Signs and Oxygen Administration Equipment**

1. Accurately identify vital signs and the normal and abnormal values of each for both adults and pediatric patients
2. Demonstrate correct usage of sphygmomanometer by measuring live models blood pressure.
3. Identify 7 pulse points
4. Identify 3 different methods of taking temperature
5. Demonstrate ability to assess respirations

6. Identify different pulse ranges
7. Identify differing components of oxygen administration equipment and their use
8. List the precautions and considerations for the administration of oxygen in the patient's room or radiology department

**Module IV:**

**Drug Administration/Pharmacology**

1. Identify different routes and methods of drug/contrast administration
2. Identify drug categories
3. Identify the 5 rights of drug administration
4. List and define different containers of medication/contrast
5. Demonstrate accurate procedure for venipuncture
6. List the 3 categories of drug reactions
7. Define terms

**Module V:**

**Medical and Surgical Asepsis**

1. Demonstrate correct hand-washing procedure
2. Identify principles of hand-washing (ie, infection control, nosocomial link)
3. List and define 4 types of Microorganisms
4. Describe the cycle of infection and necessary elements
5. Define and differentiate means of transmission
6. Define terms (medical asepsis, surgical asepsis, PPE,)
7. Identify methods of isolation
8. Define methods of sterilization
9. Demonstrate proper handling/transfer of sterile items to avoid contamination of field
10. Demonstrate and describe proper sterile environment protocols (gowning, gloving, walking, interaction)

**Module VI:**

**Medical Emergencies and Patient's with Special Concerns**

1. Define and recognize signs of shock
2. Identify types of shock
3. Identify appropriate RT action for types of shock
4. Identify and define diabetic considerations
5. Define related terms
6. List and Define types of seizures and precautions
7. Identify concerns of pediatric and geriatric patients
8. Identify special precautions with trauma of the head, spine, fractures, and abdomen
9. Describe precautions for dealing with agitated/intoxicated patients

**MINIMAL STANDARDS**

PERFORMANCE OBJECTIVES: Following classroom instruction and demonstration the student will be able to complete the above competencies with the program required minimum of 80% accuracy or above by documentation of each module test score unless otherwise specified.

**COURSE REQUIREMENTS**

All students are responsible for attaining competencies through the completion of the following course requirements:

- attending class (See Handbook and Catalog for attendance policy)
- reading all assigned chapters as listed in the syllabus
- participating in all class activities and tests as scheduled and as listed in syllabus
- complete all CAI assignments

## **ACADEMIC INTEGRITY**

The policies stated in the YTC Handbook and Catalog and Radiologic Technology Student Policy Manual will be enforced. Any student violating the policy will be subject to academic discipline as stated.

## **ATTENDANCE POLICY**

The attendance policy as stated in the *YTC Handbook and Catalog* and *Rad Tech Student Manual* (page 5) will be enforced.

## **GRADING PROCEDURES**

A minimum grade of 80% is required on all unit tests to pass. Any student making a grade lower than 80% on a unit tests will be required to take a comprehensive final exam at the end of the semester. However, if any student makes a grade lower than 80% and still maintains an A average at the end of the semester, the student will not be required to take the comprehensive final exam. As with all RAD courses, the grading scale is as follows:

GRADE	SCORE
A	93-100
B	92-86
C	85-80
D	79-70
F	Below 70

See Student Manual for additional information.

## **ENTRY-LEVEL SKILLS**

A student entering this course must be enrolled in the Radiologic Technology Program.

## **PREREQUISITES**

Admission requirements for entrance into the Radiologic Technology Program.

## **CO-REQUISITES**

RAD 101, RAD 152