

## ESSENTIAL STANDARDS: PHYSICAL AND NON-PHYSICAL STANDARDS



### *Radiologic Technology Program* *Essential Standards: Physical and Non-Physical Standards*

**In accordance with the Americans with Disabilities Act (ADA) Public Law 101-336, the Cabrillo College Radiologic Technology Program makes every effort to make reasonable accommodation to any qualified individual with disability. The program will not discriminate against any individual because of age, gender, ethnic background, sexual orientation, political affiliation, or disability.**

**POSITION SUMMARY:** The Radiologic Technology student learns how to accurately demonstrate body structures by determining proper exposure factors, manipulating medical imaging equipment, evaluating the radiographic image quality; and providing for patient protection, safety, and comfort during radiographic procedures. The Radiologic Technology student also assists the physician team member in specialized procedures which often require the administration of contrast media for the purpose of dynamic viewing of the anatomy and physiology of human body systems.

### **ESSENTIAL STANDARDS AND/OR FUNCTIONS FOR** **RADIOLOGIC TECHNOLOGY STUDENTS**

In order to ensure student and patient safety and welfare, the Radiologic Technology student must be able to:

#### **PHYSICAL DEMANDS**

1. Stand and/or walk in an erect posture for up to 8 hours per day;
2. Lift a minimum of 35 pounds from floor level to waist level, and lift a minimum of 10 pounds from waist level to shoulder level;
3. Carry a minimum of 20 pounds directly on the arms or hands while walking a distance of 100 feet;
4. Bend or flex the upper trunk forward up to 45 degrees, and flex the lower torso into a squatting position;
5. Rotate the upper trunk up to 30 degrees to the right or the left from a neutral position while standing or sitting;
6. Reach a maximum of 72" above floor level and/or a full arm's reach;
7. Push and/or pull objects and equipment weighing up to 250 pounds;
8. Manipulate radiographic and medical equipment and accessories utilizing fingering and/or reaching, pulling, extending;

#### **NON-PHYSICAL DEMANDS**

1. Respond quickly and appropriately to emergency situations using the English language;
2. Communicate with patients and staff at all times using the English language;
3. Exhibit good listening skills
4. Tolerate strong, unpleasant odors sight of blood and traumatic injury.
5. Handle stressful situations related to technical and procedural standards and patient care situations;
6. Concentrate on fine-detailed items and follow predetermined protocol, both written and verbal.
7. Provide physical and emotional support with compassion and empathy to patients during radiographic procedures.

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## SPECIFIC PHYSICAL NEEDS

The Radiologic Technology student must possess the following capabilities:

1. Self-mobility with the capability of propelling wheelchairs, gurneys, and portable x-ray equipment, alone or with assistance as available. The student must be ambulatory and able to maintain a center of gravity when met with opposing forces when lifting, supporting, and transporting a patient. The student must be able to transport patients within the department and in the clinical education center at large.
2. Visual acuity that allows the student to:
  - A. Distinguish whether the x-ray beam is perpendicular, horizontal, or angled through the anatomical structures that are being examined.
  - B. Perform the required radiography procedures that involve the preparation of contrast agents for administration to the patient, such as syringes or IV bottles.
  - C. Determine the correct dosage of contrast agents according to product labels.
  - D. Identify the correct patient by reading patient identification armbands and/or charts.
  - E. Correctly set the x-ray generator controls to obtain optimum diagnostic quality radiographs.
  - F. Perform entry data tasks using digital and computer terminals.
  - G. View and evaluate the recorded images for the purpose of identifying proper patient identification, positioning, radiographic technique, and radiographic quality.
3. Hearing acutely and/or lip reading that is sufficient to communicate with the patients and the health care team. The student must be able to hear and respond to patient questions and directions from department and hospital staff.
4. Manual dexterity that allows the student to grasp and manipulate small objects required to perform radiographic procedures and operate radiographic equipment such as locks, beam limiting devices, radiation protection devices, vials, syringes, intravenous systems, catheters, dressings, and sterile trays. The student must also be able to properly handle and process radiographic images using automatic processors and digital readers.
5. Orally communicate in a voice that is clear and loud enough to be understood by a person in the radiology department, in surgery, in the clinical education at large, or on the telephone.