

## Radiation Therapy Program

### Essential Functions

Listed below are the minimum essential functions considered necessary or fundamental to perform the job of a radiation therapist. Students will learn and participate in an academic environment and the clinical environment. **Please review and sign the form.**

Student must be able to perform the following activities:

#### Cognitive demands

1. **Mathematic skills:**
  - a. Calculate variable and formulas, ratios proportions square roots and percentages.
2. **Reading:**
  - a. Read English, can interpret printed and cursive records to include scientific journals and patient charts.
  - b. Read digital readout devices on machine controls, gantry, computer screen and on patients.
3. **Writing:**
  - a. Have legible English writing skills (example: able to document clearly in a patient chart, write reports)
4. **Speaking:**
  - a. Orally and clearly speak English in full sentences. Responding in clear legible tone, verbalizing in a logical sequence. Able to explain treatments to patients, verbalize instructions to patients, communicate with other health professionals and provide patient education.
5. **Reasoning**
  - a. Must be able to correctly interpret a variety of instructions furnished in written, oral and diagram form.

#### Physical Demands:

##### Frequency based on 8 hour day

Constantly: 67%-100% of the time  
 Frequently: 34-66% of the time  
 Occasionally: 6-33% of the time  
 Rarely: 5% or less of the time

##### Requirement based on 8 hour day

Essential  
 Modifiable  
 Non essential

#### 1. Lift /carry

- a. Blocks weighing up to 35 lbs and insert them into the machine.
- b. Patients (adult/child/infant)
- c. Film cassettes (10-25 lbs)
- d. Patient film/charts (3-7 lbs)
- e. Electron Cones/Collimator assembly
- f. Positioning aids (1-25 lbs)

#### Frequency

Constantly  
 Constantly  
 Frequently  
 Constantly  
 Frequently  
 Constantly

#### Requirement

Essential  
 Essential  
 Essential  
 Essential  
 Essential  
 Essential

<b>2. Push/Pull/Reach</b>		
a. Wheelchair or stretcher (empty and with patients)	Occasionally	Essential
b. Film holder	Frequently	Essential
c. Patient couch assembly	Constantly	Essential
d. Ultrasound unit	Occasionally	Modifiable
<b>3. Movement/Activity:</b>		
a. Standing	Constantly	Essential
b. Walking	Constantly	Essential
c. Bending	Frequently	Essential
d. Crouching	Frequently	Essential
e. Sitting	Occasionally	Modifiable
f. Climbing/Balancing (stairs, ramps, step stools)	Rarely	Modifiable
g. Reaching (above shoulders, Below knees, horizontal and vertical)	Frequently	Essential
<b>4. Fine Motor Skills:</b>		
a. Hand control, manipulation of buttons keyboard/switches/knobs	Constantly	Essential
<b>5. Hearing: (with or without correction)</b>		
a. Can distinguish sounds and voices over background noise.	Constantly	Essential
b. Hear patient communications over and auditory monitoring system	Constantly	Essential
c. Hear patient and/or co worker in a darkened treatment room.	Constantly	Essential
<b>6. Vision: (with or without correction)</b>		
a. Visually monitor patient on TV camera from outside of the radiation room.	Constantly	Essential
b. Visually observe patient's clinical status.	Constantly	Essential
c. Review images for evaluation purposes.	Frequently	Essential
d. Able to distinguish colors	Frequently	Essential
<b>7. Physical Exposure</b>		
a. Noise (moderate: mechanical equipment)	Occasionally	Essential
b. Radiation	Constantly	Essential
c. Electric shock	Occasionally	Essential
d. Blood, body fluids, infectious disease	Frequently	Essential



*Essential Requirements of the*  
**Radiation Therapy Program**

The Joint Review Committee on Education in the Radiologic Technology requires us to define and publish specific academic standards and essential functions required for admission to the program and to determine that the applicants or students health will permit them to meet the written essential functions of the program.

You have received a draft of the essential observation, movement, communication, intellectual, and behavioral requirements for the Radiation Therapy Technology Program. Please sign this form to indicate that you have read and understood the Radiation Therapy Technology Program Requirements and believe that you can meet them.

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Name

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Date