X-ray Equipment Self Study Assignment

Radiation Safety Training

University of Manitoba

Created May 4, 2018

INSTRUCTIONS

The student is to clearly print or write all responses on this document. Please answer the questions in a manner to demonstrate your understanding of radiation safety. This assignment will be used to assess your competency in order to be listed as a designated worker on an Internal X-ray Permit.

Prior to completing the assignment – review the X-ray Equipment Safety Orientation on the web at: http://umanitoba.ca/admin/vp_admin/risk_management/ehso/media/X-ray_Safety.pdf
Name of Student completing the assignment: (Please underline your family name)
The original completed assignment must be mailed to: Environmental Health & Safety P310 Pathology Building
May be sent electronically – Hard copy must follow! Scan and e-mail to: radsafety@umanitoba.ca or Fax to: 204 789-3906
Section 1 - Basics of Radiation
 1. X-rays are a form of radiation? a. Cosmetic b. Particulate c. Visible d. Electromagnetic
2. Does a microwave or an X-ray have a longer wavelength?
3. X-rays are created when an electron collides with an atom. True False
Section 2 - Legal Requirements
4. Name the two regulations governing the use of X-ray equipment: a b
 Does the University of Manitoba have a governing document that establishes and outlines responsibilities for radiation safety at the University? Yes No
6. How can you tell if X-ray equipment is registered with University Environmental Health and Safety?

7. At the University, what is the distinction between a clinical and a research X-ray equipment?

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Section 4 - More on what is required

- 17. Responsibilities of anyone operating Research X-ray equipment include:
 - a. Wear dosimeters as required
 - b. Follow the conditions of the permit.
 - c. Stop operation of the equipment if any unsafe operational conditions arise; and notify the Permit Holder, your supervisor and the Radiation Safety Officer.
 - d. Successfully complete the X-ray safety training and apply the learning to the work done with X-ray equipment.
 - e. All of these
- 18. If you plan on purchasing or inheriting X-ray equipment you must notify:
 - a. Next of kin
 - b. Radiation Safety Officer
 - c. Centre for Disease Control
 - d. Twitterverse
- 19. If you plan on disposing or transferring ownership of X-ray equipment, you must notify:
 - a. Security Services
 - b. Research Services
 - c. Facilities Management
 - d. Radiation Safety Officer
- 20. What is the goal of implementing safe work procedures for X-ray equipment?

Section 5 - Emergency Response

- 21. Any suspected over-exposure to radiation requires a timely investigation. If you suspect you have been overexposed, you should:
 - a. Report incident immediately to the Radiation Safety Officer
 - b. Report incident tomorrow to the Permit Holder and your supervisor
 - c. Keep calm and carry on with your assignment
 - d. Panic

Declaration:	By signing below,	I have acknowledged th	at I personally hav	ve completed all	I the submitted	answers
to the quest	ions.					

Signature of person completing the assignment:	
Date of Signature:	 -
Name of Permit Holder:	