Overview

Introduction

How do we make sure that radiographic equipment is working consistently and efficiently? In this topic you will discuss safety recommendations, how to perform specific tests for the tube and generator and methods to interpret results in order to find a solution to common problems.

Learning Outcome

Evaluate the standard performance of a radiographic unit according to Safety Code 35 requirements.

Learning Activities

1. Complete the assigned readings (refer to the course schedule)
2. Complete the guided reading activity
    - Check your answers with the answer key
3. Complete QA performance tests 10–14 (refer to performance testing section):
    - Test 10: Visual Inspection Test
    - Test 11: Automatic Collimation (PBL) Test
    - Test 12: Collimator Light/X-ray Field Congruence & Perpendicularity Test
    - Test 13: Half Value Layer (HVL) Measurement Test (generator test for beam filtration)
    - Test 14: Testing Lead Apparel Test

Resources

Health Canada. (2008). *Safety code 35: Safety procedures for the installation, use and control of x-ray equipment in large medical radiological facilities*. Retrieved from http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/safety-code_35-securite/index-eng.php

Papp, Jeffrey. (2015). *Quality management in the imaging sciences* (5th ed.). St. Louis, MO: Mosby Elsevier.