

**WAC 246-227-170 Appendix A—Minimum subjects to be covered in training radiographers.** (1) Fundamentals of radiation safety:

- (a) Characteristics of ionizing radiation;
- (b) Units of radiation dose (mrem) and quantity of radioactivity (curie);
- (c) Hazards of exposure to radiation:
  - (i) Radiation protection standards;
  - (ii) Biological effects of radiation dose;
- (d) Levels of radiation from X-ray machines;
- (e) Methods of controlling radiation dose:
  - (i) Working time;
  - (ii) Working distances;
  - (iii) Shielding.
- (2) Radiation detection instrumentation to be used:
  - (a) Use of radiation survey instruments:
    - (i) Operation;
    - (ii) Calibration;
    - (iii) Limitations;
  - (b) Survey techniques;
  - (c) Use of personnel monitoring equipment:
    - (i) Film badges;
    - (ii) Pocket dosimeters;
    - (iii) Thermoluminescent dosimeters.
  - (3) Operation and control of X-ray equipment.
  - (4) The requirements of pertinent federal and state regulations.
  - (5) The registrant's written operating and emergency procedures.
  - (6) Case histories of radiography accidents.

[Statutory Authority: RCW 70.98.050. WSR 94-01-073, § 246-227-170, filed 12/9/93, effective 1/9/94.]