

3701:1-48-16 Training.

- (A) The licensee may not permit any individual to act as a radiographer until the individual:
- Has received training in the subjects in paragraph (G) of this rule, in addition to a minimum of two months of on-the-job training, is certified through a radiographer certification program by a certifying entity in accordance with the criteria specified in appendix A to this rule and is approved by the director.
- (B) In addition, the licensee may not permit any individual to act as a radiographer until the individual:
- (1) Has received copies of and instruction in the requirements described in this chapter, Chapter 3701:1-38, and rule 3701:1-40-05 of the Administrative Code; in applicable regulations as specified in Chapter 3701:1-50 of the Administrative Code; in the Ohio license(s) under which the radiographer will perform industrial radiography; and the licensee's operating and emergency procedures;
 - (2) Has demonstrated understanding of the licensee's license and operating and emergency procedures by successful completion of a written or oral examination covering this material;
 - (3) Has received training in the use of the licensee's radiographic exposure devices, sealed sources, in the daily inspection of devices and associated equipment, and in the use of radiation survey instruments; and
 - (4) Has demonstrated understanding of the use of radiographic exposure devices, sources, survey instruments and associated equipment described in paragraphs (B)(1) and (B)(3) of this rule by successful completion of a practical examination covering this material.
- (C) The licensee may not permit any individual to act as a radiographer's assistant until the individual:
- (1) Has received copies of and instruction in the requirements described in this chapter; Chapter 3701:1-38, and rule 3701:1-40-05 of the Administrative Code; in applicable regulations as specified in Chapter 3701:1-50 of the Administrative Code; in the Ohio license(s) under which the radiographer's assistant will perform industrial radiography; and the licensee's operating and emergency procedures;
 - (2) Has developed competence to use, under the personal supervision of the radiographer, the radiographic exposure devices, sealed sources, associated equipment, and radiation survey instruments that the assistant will use; and
 - (3) Has demonstrated understanding of the instructions provided under paragraph (C)(1) of this rule by successfully completing a written test on the subjects covered and has demonstrated competence in the use of hardware described in paragraph (C)(2) of this rule by successful completion of a practical examination on the use of such hardware.
- (D) The licensee shall provide refresher safety training for each radiographer and

radiographer's assistant at intervals not to exceed twelve months.

- (E) Except as provided in paragraph (E)(3) of this rule, the radiation safety officer for industrial radiography or qualified designee shall conduct an inspection program of the job performance of each radiographer and radiographer's assistant to ensure that the department's rules, license requirements, and the applicant's operating and emergency procedures are followed.

(1) The inspection program must:

- (a) Include observation of the performance of each radiographer and radiographer's assistant during an actual industrial radiographic operation, at intervals not to exceed six months; and
- (b) Provide that, if a radiographer or a radiographer's assistant has not participated in an industrial radiographic operation for more than six months since the last inspection, the radiographer must demonstrate knowledge of the training requirements of paragraph (B)(3) of this rule and the radiographer's assistant must re-demonstrate knowledge of the training requirements of paragraph (C)(2) of this rule by a practical examination before these individuals can next participate in a radiographic operation.

(2) The director may consider alternatives in those situations where the individual serves as both radiographer and radiation safety officer for industrial radiography.

(3) In those operations where a single individual serves as both radiographer and radiation safety officer for industrial radiography, and performs all radiography operations, an inspection program is not required.

- (F) The licensee shall maintain records of the above training to include certification documents, written and practical examinations, refresher safety training and inspections of job performance in accordance with paragraph (I) of rule 3701:1-48-23 of the Administrative Code.

- (G) The licensee shall include the following subjects required in paragraph (A) of this rule:

(1) Fundamentals of radiation safety including:

- (a) Characteristics of gamma radiation;
- (b) Units of radiation dose and quantity of radioactivity;
- (c) Hazards of exposure to radiation;
- (d) Levels of radiation from licensed material; and
- (e) Methods of controlling radiation dose (time, distance, and shielding);

(2) Radiation detection instruments including:

- (a) Use, operation, calibration, and limitations of radiation survey instruments;
- (b) Survey techniques; and

- (c) Use of personnel monitoring equipment;
- (3) Equipment to be used including:
 - (a) Operation and control of radiographic exposure equipment, remote handling equipment, and storage containers, including pictures or models of source assemblies (pigtailed);
 - (b) Storage, control, and disposal of licensed material; and
 - (c) Inspection and maintenance of equipment;
- (4) The requirements of pertinent federal and state regulations; and
- (5) Case histories of accidents in radiography.

Five Year Review (FYR) Dates: 04/04/2016 and 04/01/2021

CERTIFIED ELECTRONICALLY

Certification

12/04/2016

Date

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