

STATE OF WISCONSIN  
RADIOGRAPHY EXAMINING BOARD

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IN THE MATTER OF RULEMAKING : NOTICE OF TIME PERIOD  
PROCEEDINGS BEFORE THE : FOR COMMENTS FOR THE  
RADIOGRAPHY EXAMINING : ECONOMIC IMPACT ANALYSIS  
BOARD :

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NOTICE IS HEREBY GIVEN of the time period for public comment on the economic impact of this proposed rule of the Radiography Examining Board relating to scope of practice, including how this proposed rule may affect businesses, local government units, and individuals. The comments will be considered when the Department of Safety and Professional Services prepares the Economic Impact Analysis pursuant to § 227.137. Written comments may be submitted to:

Kassandra Walbrun, Administrative Rules Coordinator  
Division of Policy Development  
Department of Safety and Professional Services  
PO Box 8366  
Madison, WI 53708-8366  
[DSPSAdminRules@wisconsin.gov](mailto:DSPSAdminRules@wisconsin.gov)

**The deadline for submitting economic impact comments is April 12, 2021.**

PROPOSED ORDER

An order of the Radiography Examining Board to amend RAD 4.01 (1) and 4.02 (1); and to repeal and recreate RAD 4.01 (2) and 4.02 (2), relating to scope of practice.

Analysis prepared by the Department of Safety and Professional Services.

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ANALYSIS

**Statutes interpreted:**

Section 462.02, Stats.

**Statutory authority:** Sections 15.08 (5) (b) and 227.11 (2) (a), Stats.

**Explanation of agency authority:**

Section 15.08 (5) (b), Stats., provides each examining board “[s]hall promulgate rules for its own guidance and for the guidance of the trade or profession to which it pertains. . .”

Section 227.11 (2) (a), Stats., sets forth the parameters of an agency’s rule-making authority, providing “ [e]ach agency may promulgate rules interpreting provisions of any statute enforced or administered by the agency. . .but a rule is not valid if the rule exceeds the bounds of correct interpretation.”

**Related statute or rule:**

Chapter 462, Stats., and chs. RAD 1, 2, 3, 5, and 6.

**Plain language analysis:**

The scope of practice standards for radiographers and limited X-ray machine operators in current rules are a reproduction of the standards for scope of practice established by the American Society of Radiologic Technologists (ASRT) in 2017. ASRT periodically updates its standards, most recently in 2019. The proposed rule updates the scope of practice standards in ss. RAD 4.01 and 4.02 to be a reproduction of the standards for scope of practice established by the ASRT in 2019.

**Summary of, and comparison with, existing or proposed federal regulation:**

None.

**Comparison with rules in adjacent states:****Illinois:**

Illinois Administrative Code (32 Ill. Admin. Code 401) provides for accreditation in the practice of medical radiation technology in Illinois, but does not explicitly define scope of practice. However, scope of practice is addressed in definitions of the categories of accreditation in the practice of medical radiation technology and the techniques of applying radiation (32 Ill. Admin. Code 401.20). These definitions do not reference the standards established by the American Society of Radiologic Technologists.

**Iowa:**

Iowa Administrative Code (641 IAC 42) provides for permits to operate ionizing radiation producing machines or administer radioactive materials in Iowa, but does not explicitly define scope of practice. However, scope of practice is addressed in definitions of the categories of permits to practice and the techniques of using ionizing radiation producing machines and administering radioactive materials (641 IAC 42.2). In addition, the rules provide the scope within which a limited radiologic technologist with categories of chest, spine, extremities, shoulder, and pediatric shall perform radiography (641 IAC 42.9). The rules do not reference the standards established by the American Society of Radiologic Technologists.

**Michigan:**

The State of Michigan does not license operators of X-ray machines, nor does it have any requirements relative to the licensure or credentialing of X-ray machine operators except for radiologic technologists who perform mammographic examinations (Mich Admin Code, R 333.5630). These rules do not define or otherwise address scope of practice.

**Minnesota:**

Minnesota Statutes (2020 Minn. Stat. 144.121, Subds. 5a. and 5b.) provide the scope of practice of a limited X-ray machine operator (LXMO) and a means of granting a variance to a facility for the scope of practice of an LXMO. The statutes do not reference the standards established by the American Society of Radiologic Technologists.

**Summary of factual data and analytical methodologies:**

The proposed rules update the scope of practice of radiographers and limited X-ray machine operators to align with the current standards for scope of practice established by the American Society of Radiologic Technologists. No additional factual data or analytical methodologies were used to develop the proposed rules.

**Analysis and supporting documents used to determine effect on small business or in preparation of economic impact analysis:**

The proposed rules will be posted for a period of 14 days to solicit public comment on the economic impact of the proposed rule, including how this proposed rule may affect businesses, local government units, and individuals.

**Effect on small business:**

These proposed rules do not have an economic impact on small businesses, as defined in s. 227.114 (1), Stats. The Department’s Regulatory Review Coordinator may be contacted by email at Daniel.Hereth@wisconsin.gov, or by calling (608) 267-2435.

**Agency contact person:**

Kassandra Walbrun, Administrative Rules Coordinator, Department of Safety and Professional Services, Division of Policy Development, P.O. Box 8366, Madison, Wisconsin 53708-8366; telephone (608) 261-4463; email at DSPSAdminRules@wisconsin.gov.

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TEXT OF RULE

SECTION 1. RAD 4.01 (1) is amended to read:

**RAD 4.01 (1) GENERAL SCOPE OF PRACTICE.** The practice of a radiographer involves the performance of radiography and radiographic procedures and related techniques to produce images for the interpretation by, or at the request of, a licensed ~~independent~~ practitioner. Radiographers perform the radiographic examination to create the images needed for medical diagnosis and apply scientific knowledge, technical skills, patient interaction, and care necessary to obtain diagnostic information. Radiographers may apply radiation to any part of the human body, and may administer contrast agents and related substances for diagnostic purposes.

SECTION 2. RAD 4.01 (2) is repealed and recreated to read:

**RAD 4.01 (2) APPLICABLE STANDARDS.** The scope of practice of a licensed radiographer includes all of the following, as defined in the ASRT Practice Standards for

Medical Imaging and Radiation Therapy, 2019 American Society of Radiologic Technologists:

- (a) Administering medications parenterally through new or existing vascular access, enterally or through other appropriate routes as prescribed by a licensed practitioner.
- (b) Administering medications with an infusion pump or power injector as prescribed by a licensed practitioner.
- (c) Applying principles of ALARA, or As Low As Reasonably Achievable, to minimize exposure to patient, self, and others.
- (d) Applying principles of patient safety during all aspects of patient care.
- (e) Assisting in maintaining medical records, respecting confidentiality and established policy.
- (f) Corroborating a patient's clinical history with procedure and ensuring information is documented and available for use by a licensed practitioner.
- (g) Educating and monitoring students and other health care providers.
- (h) Evaluating images for proper positioning and determining if additional images will improve the procedure or treatment outcome.
- (i) Evaluating images for technical quality and ensuring proper identification is recorded.
- (j) Identifying and responding to emergency situations.
- (k) Identifying, preparing, and administering medications as prescribed by a licensed practitioner.
- (L) Performing ongoing quality assurance activities.
- (m) Performing venipuncture as prescribed by a licensed practitioner.
- (n) Postprocessing data.
- (o) Preparing patients for procedures.
- (p) Providing education.
- (q) Providing optimal patient care.
- (r) Receiving, relaying, and documenting verbal, written, and electronic orders in the patient's medical record.
- (s) Selecting the appropriate protocol and optimizing technical factors while maximizing patient safety.
- (t) Starting, maintaining, and removing intravenous access as prescribed by a licensed practitioner.
- (u) Verifying archival storage of data.
- (v) Verifying informed consent for applicable procedures.

(w) Assisting the licensed practitioner with fluoroscopic and specialized radiologic procedures.

(x) Performing diagnostic radiographic and noninterpretive fluoroscopic procedures as prescribed by a licensed practitioner.

SECTION 3. RAD 4.02 (1) is amended to read:

**RAD 4.02 (1) GENERAL SCOPE OF PRACTICE.** The LXMO performs radiographic procedures and related techniques within the practice of radiography under the supervision of a licensed ~~radiography~~ radiographer or other health care provider, consistent with the LXMO's limited scope education, training, and examination.

SECTION 4. RAD 4.02 (2) is repealed and recreated to read:

**RAD 4.02 (2) APPLICABLE STANDARDS.** The scope of practice of an LXMO includes all of the following, as defined in the ASRT Practice Standards for Medical Imaging and Radiation Therapy, 2019 American Society of Radiologic Technologists:

(a) Applying principles of ALARA, or As Low As Reasonably Achievable, to minimize exposure to patient, self, and others.

(b) Applying principles of patient safety during all aspects of patient care.

(c) Assisting in maintaining medical records, respecting confidentiality and established policy.

(d) Corroborating a patient's clinical history with procedure and ensuring information is documented and available for use by a licensed practitioner.

(e) Evaluating images for proper positioning and determining if additional images will improve the procedure or treatment outcome.

(f) Evaluating images for technical quality and ensuring proper identification is recorded.

(g) Identifying and responding to emergency situations.

(h) Performing ongoing quality assurance activities.

(i) Postprocessing data.

(j) Preparing patients for procedures.

(k) Providing education.

(L) Providing optimal patient care.

(m) Selecting the appropriate protocol and optimizing technical factors while maximizing patient safety.

(n) Verifying archival storage of data.

(o) Assisting a licensed practitioner or radiographer during static radiographic procedures.

(p) Performing diagnostic radiographic procedures, as prescribed by a licensed practitioner, of a specific area of anatomical interest based on limited education, training, and licensure or certification within the individual's scope of practice.

SECTION 5. EFFECTIVE DATE. The rules adopted in this order shall take effect on the first day of the month following publication in the Wisconsin Administrative Register, pursuant to s. 227.22 (2) (intro.), Stats.

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(END OF TEXT OF RULE)

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