



Minnesota Rules, Chapter 4732 X-Ray Revision

DRAFT SERVICE PROVIDER TRAINING RULES, 2.0

Summary of Changes

MDH made a number of changes to the Service Provider Training rule draft v1.0 based on the service provider focus group's review and feedback at the June 28, 2018 meeting. The changes are listed below.

Subp. 1. Applicability.

- Deleted "categories"

Subp. 2. Vendor training.

- Deleted "and experience"

Subp. 3. Service technician training.

- Added "calibration, equipment performance evaluation, preventive maintenance"
- **Item A.** Deleted "six months" and replaced with "480 hours"
- **Item A(1).** Deleted "didactic or"
Added "on-site, or online manufacturer training" and "x-ray imaging systems, or x-ray system and x-ray imaging system components"
After the semicolon, deleted "and" and replaced with "or"
- **Item A(2).** Added "applicable"; "calibration, equipment performance evaluation, preventive maintenance"
Deleted "A service technician does not require six months of training on each individual x-ray system, x-ray imaging system, and x-ray imaging system component"
After the semicolon, deleted "and" and replaced with "or"
- **Item A(3).** After the semicolon, deleted "or" and replaced with "and"
- **Item B.** Changed "eight training hours covering radiation or x-ray system safety" to "eight training hours covering radiation and x-ray system safety"
- **Item C.** [new]

Subp. 4. QE preceptor oversight training for a service technician.

- Revised headnote
- Changed subpart 4 to "A service technician must be under personal supervision by a QE before a service technician may prepare shielding plans, shielding evaluations, or radiation protection surveys independently."

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- **Item B.** Deleted subitem(3) – “six months of personal supervision for performing shielding evaluations or radiation protection surveys”
- **Item C.** Revised attestation provision.

Subp. 5. QMP preceptor oversight training for a service technician.

- Revised headnote
- Changed subpart 5 to “A service technician must be under the personal supervision by of a QMP before a service technician can perform equipment performance evaluations of CT or fluoroscopy x-ray systems independently.”
- Deleted “six months of personal supervision for performing equipment performance evaluations.”
- **Item A.** Changed “and” to “or” “perform an equipment performance evaluation for CT or fluoroscopy”
- **Item A.** Changed “and” to “or” “to verify performance for each x-ray system for CT or fluoroscopy”
- **Item C.** Revised attestation provision

4732.#### SERVICE PROVIDER TRAINING.

Subpart 1. Applicability. A service provider that provides some or all of the services under part 4732.####, subp. 4 must meet the training requirements of this part.

Commented [JC(1): Service provider registration part – service categories

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Subp. 2. Vendor training. A service company must submit to the commissioner evidence of training under part 4732.####, subpart 3, item (7) for a vendor who is responsible for the sale, lease, lend, transfer, or demonstration of x-ray systems to a registrant. Evidence of vendor training is eight training hours covering radiation and x-ray system safety.

Commented [JC(2): NC 10A NCAC 15 .0214 TRAINING AND EDUCATIONAL REQUIREMENTS FOR EQUIPMENT SERVICES

SC, NC – familiarity with rules only

OR 333-101-0020 3A

Vendors who provide demonstrations or training must have, at minimum, one day of training in radiation use and safety.

Subp. 3. Service technician training. A service company must submit to the commissioner evidence of training and experience under part 4732.####, subpart 3, item B (7) for a service technician who is responsible for the installation, assembly, calibration, equipment

Commented [JC(3): Reference to Service Registration, Subp. 3. Application. Item B(7) the training and experience of each service provider who provides services under subpart 4 [Service categories.]

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performance evaluation, preventive maintenance, replacing, or servicing of a registrant's x-ray systems, x-ray imaging systems, or x-ray system and x-ray system components. Evidence of a service technician's training and experience includes:

A. A combination of 480 hours of:

(1) classroom, on-site, or online manufacturer training with the type of x-ray systems, x-ray imaging systems, or x-ray system and x-ray imaging system components to be serviced; or

(2) applicable supervised and documented training by a service company in the installation, assembly, calibration, equipment performance evaluation, preventive maintenance, replacing, or servicing of x-ray systems, x-ray imaging systems, or x-ray system and x-ray imaging system components; and

(3) radiation measurements to verify performance with the types of the x-ray system serviced excluding CT and fluoroscopy; and

B. eight training hours covering radiation and x-ray system safety.

C. The training and experience requirement may be met with all training hours under item A, subitem (1), or a combination of training hours under item A, subitems (1) to (3). If a service provider's training experience includes hours under item A, subitem (2), then there must be corresponding training hours under item A, subitem (3).

Subp. 4. **QE preceptor oversight training for a service technician.** A service technician must be under the personal supervision of a QE before a service technician may prepare a shielding plan, a shielding evaluation, or a radiation protection survey independently.

Commented [SW(4)]: SSRRCR Part B, Appendix E and Delaware CO-2.6.1.16/NC15.0214/SC 2.6.6.2/TX 289.26

Commented [SW(5)]: NC, SC – 3 months supervised and documented training.

Commented [SW(6)]: NC 15.0214 and SC 2.6.6.2

Commented [TP(7): Advisory Committee]: Initial training only – for service technician and QE/QMP? Is this a sufficient amount of training? Renew periodically? "Continuing education or refresher training.

Commented [TP(8): Definition of personal supervision]: "Personal supervision" means guidance and instruction by a QE who is physically present, is in personal contact with a service technician, and is able to give immediate assistance.

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A. A QE must verify that a service technician is competent and understands the requirements to conduct a shielding plan including:

- (1) knowledge in radiation and x-ray system safety;
- (2) guidance and instruction by a QE in shielding plans for each x-ray system; and
- (3) 10 documented shielding plans under the personal supervision of a QE.

Commented [JC(9)]: MQSA requires that a physicist have 10 supervised mammography surveys prior to performing surveys independently.

B. A QE must verify that a service technician is competent and understands the requirements to conduct a shielding evaluation or radiation protection survey including:

- (1) knowledge in radiation and x-ray system safety;
- (2) guidance and instruction by a QE in shielding evaluations or radiation protection surveys for each x-ray system; and
- (3) 10 documented shielding evaluations or radiation protection surveys under the personal supervision of a QE.

Commented [JC(10)]: MQSA requires that a physicist have 10 supervised mammography surveys prior to performing surveys independently.

C. Attestation from a QE that a service technician has met the minimum requirements under this subpart and is competent to prepare a shielding plan, shielding evaluation, or radiation protection survey independently.

Commented [JC(11)]: Discussion point: 10 shielding plans, shielding evaluations, or radiation protection surveys under personal supervision

Subp. 5. QMP preceptor oversight training for a service technician. A service technician must be under the personal supervision of a QMP before a service technician can perform an equipment performance evaluation of CT or fluoroscopy x-ray systems independently.

A. A QMP must verify that a service technician is competent and understands the requirements to perform an equipment performance evaluation for CT or fluoroscopy including:

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- (1) knowledge in radiation and x-ray system safety; and
- (2) guidance and instruction by a QMP in equipment performance evaluations for each x-ray system for CT or fluoroscopy.
- (3) 10 documented equipment performance evaluations for CT under the personal supervision of a QMP; and
- (4) 10 documented equipment performance evaluations for fluoroscopy under the personal supervision of a QMP.

B. Radiation output measurements to verify performance for each x-ray system for CT or fluoroscopy; and

C. Attestation from a QMP that a service technician has met the minimum requirements under this subpart and is competent to perform an equipment performance evaluation of CT or fluoroscopy x-ray systems independently.

Subp. 6. Qualified expert or qualified medical physicist training. A service company

must submit verification of qualifications under part 4732.#### to the commissioner for a QE or QMP and eight training hours covering radiation or x-ray system safety training under part 4732.###, subpart 3, item (7).

Commented [JC(12): Reference to Service Provider Qualifications part.

Commented [JC(13): Reference to Reference to Service Registration, Subp. 3. **Application.** Item B(7)

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