**Section 335.9150 Training for Authorized Medical Physicist**

Except as provided in Section 335.9160, the licensee shall require the authorized medical physicist to be an individual who:

a) Is certified by a specialty board whose certification process has been recognized by the Agency, the U.S. Nuclear Regulatory Commission or an Agreement State and who meets the requirements in subsection (d). To be recognized, a specialty board shall require all candidates for certification to:

1) Hold a master's degree or doctorate in physics, medical physics, other physical science, engineering or applied mathematics from an accredited college or university;

2) Have 2 years of full-time practical training or supervised experience in medical physics:

A) Under the supervision of a medical physicist who is certified in medical physics by a specialty board recognized by the Agency, the U.S. Nuclear Regulatory Commission or an Agreement State; or

B) In clinical radiation facilities providing high energy, external beam therapy (photons and electrons with energies greater than or equal to 1 million electron volts) and brachytherapy services under the direction of physicians who meet the requirements for authorized users in Section 335.9100, 335.9140 or 335.9160;

3) Pass an examination administered by diplomates of the specialty board that evaluates knowledge and competence in clinical radiation therapy, radiation safety, calibration, quality assurance, and treatment planning for external beam therapy, brachytherapy and stereotactic radiosurgery; or

AGENCY NOTE: Specialty boards whose certification processes have been recognized by the Agency, the U.S. Nuclear Regulatory Commission or an Agreement State will be posted on the NRC's website.

b) Holds a master's degree or doctorate in physics, medical physics or other physical science, engineering or applied mathematics from an accredited college or university and has completed one year of full-time training in medical physics and an additional year of full-time work experience under the supervision of an individual who meets the requirements for an authorized medical physicist for the types of use for which the individual is seeking authorization. This training and work experience shall be conducted in clinical radiation facilities that provide high energy, external beam therapy and brachytherapy services and shall include:

1) Performing sealed source leak tests and inventories;

2) Performing decay corrections;

3) Performing full calibration and periodic spot checks of external beam treatment units, stereotactic radiosurgery units and remote afterloading units as applicable;

4) Conducting radiation monitoring around external beam treatment units, stereotactic radiosurgery units and remote afterloading units, as applicable; and

c) Has obtained written attestation that the individual has satisfactorily completed the requirements in subsections (b) and (d) and is able to independently fulfill the radiation safety-related duties as an authorized medical physicist for each type of use for which the individual is requesting authorized medical physicist status. The attestation shall be signed by a preceptor authorized medical physicist who meets the requirements of this Section or Section 335.9160 or equivalent U.S. Nuclear Regulatory Commission or Agreement State requirements for an authorized medical physicist for each type of use for which the individual is requesting authorized medical physicist status.

d) Has training in the type of use for which authorization is sought that includes hands-on device operation, safety procedures, clinical use and the operation of a treatment planning system. This training requirement may be satisfied by satisfactorily completing either a training program provided by an equipment supplier or by training supervised by an authorized medical physicist authorized for the type of use for which the individual is seeking authorization.

(Source: Amended at 46 Ill. Reg. 966, effective December 21, 2021)