

STATE OF OREGON



Board of Medical Imaging

PHONE 971.673.0215 FAX 971.673.0218

www.oregon.gov/obmi

BONE DENSITOMETRY INSTRUCTION MANUAL

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DEFINITIONS

ARRT	is an acronym for: American Registry of Radiologic Technology
Distance Learning	Represents a qualified learning method using electronic means to communicate
OBMI	Is an acronym for: Oregon Board of Medical Imaging
OHA-RPS	Oregon Health Authority – Radiation Protection Services

I. COURSE OBJECTIVES

The training objective for this course is to provide information regarding radiation use and safety, anatomy, positioning, technical information and the use of x-ray bone densitometry equipment in order to insure the applicant:

1. Acquires a working knowledge of the Bone Densitometry process and;
2. Has the knowledge base to pass the American Registry of Radiologic Technology's (ARRT) examination for Bone Densitometry Equipment Operators.

This program is intended to meet both didactic and practical requirements as stated in Oregon Administrative Rule (OAR) 337-010-0030(6)(d). The didactic requirements will be a minimum of sixteen (16) hours in length, that meets ARRT CE activities recognized by the ARRT, and includes instruction in radiation use and safety specific to bone densitometry. The Practical requirements must be a minimum of eight (8) hours in length.

After completing the course, the student must pass the written examination approved by the instructor. The student has 12 months starting with the date on the course completion certificate from a course of study that is approved by the Board and ending with the date of the Bone Densitometry Limited Permit application.

A. FACILITIES and EQUIPMENT

1. The training facility shall provide student for instruction in a classroom, via distance learning approved by the OBMI, or a room or area with an acceptable learning atmosphere.
2. The training facility shall have available either computer workstation(s) with current analysis software for student use, a library, or remote electronic access; which provides essentially the same material. Sufficient resource material shall be available, so that each student has adequate access during the course of instruction.
3. In addition, the training facility shall have access to a properly calibrated and maintained x-ray bone densitometry system, that is currently registered with OHA-RPS, for practical demonstration of positioning and scanning

procedures, and have the necessary aids for demonstrating patient positioning.

B. ORGANIZATION

1. The program shall be overseen by an OBMI-approved instructor with expertise in "Radiation Use & Safety" instruction.
2. Each instructor shall possess at least one of the following qualifications:
 - a. Diagnostic radiographer licensed by the OBMI and having at least six month's experience performing x-ray bone densitometry procedures, or
 - b. Limited license as a Bone Densitometry Equipment Operator with at least one year's experience including a minimum of 200 current patient hours using x-ray bone densitometry, or
 - c. Other person approved by the OBMI.
3. The instructors will be responsible for classroom and distance instruction of bone densitometry procedures and radiation use and safety. They will also be responsible for maintaining records according to the standards set forth in these criteria.

C. ADMINISTRATIVE POLICIES, RECORDS, AND REPORTS

1. All records shall be kept current and shall be readily available for inspection by OBMI staff or their designee.
2. The following records shall be kept on file at the instructional facility:
 - a. Names and qualifications of instructors
 - b. Course outlines
 - c. Course delivery method
 - d. Standards for grading
 - e. Final examinations

3. Within seven days after a course of instruction's completion, the names and addresses of students who have attended the course, and whether they have passed or failed, must be sent to the OBMI.
4. The OBMI must be notified immediately, if there is a change of course instructors.
5. The following records shall be submitted to the OBMI for approval prior to the start of the program:
 - a. Name and qualifications of the program supervisor;
 - b. Names and qualifications of the program instructors;
 - c. Course outlines;
 - d. Course delivery method; and
 - e. Grading standards.

II. COURSE OF INSTRUCTION

The course of instruction must comply with OBMI requirements and must reflect the current “Content Specifications for the Bone Densitometry Equipment Operators Examination” published by the ARRT. The curriculum shall include, but is not limited to:

1. Patient Care
2. Image Production
3. DXA Scanning
4. Course completion in cultural diversity and sensitivity as described in OAR 337-010-0085

III. TIMELINE FOR OBTAINING A BONE DENSITOMETRY PERMIT

1. The applicant must complete all steps within a 12-month period starting with the date on the course completion certificate from a course of study that is approved by the Board and ending with the date of the Bone Densitometry Limited Permit application
2. Once the applicant has a valid course completion certificate as described in this manual, the applicant must apply through OBMI, take, and pass with a score of at least 70 percent, the ARRT Bone Densitometry Equipment Operators Examination with a score of 70 percent or above
3. A person is allowed three attempts to pass the ARRT Bone Densitometry Equipment Operators Examination during the 12-month time frame. Upon failure of the three attempts, all course work must be repeated, and a new course completion certificate is required; and
4. Once the applicant has passed the ARRT Bone Densitometry Equipment Operators Examination, the applicant must apply for a Permanent Bone Densitometry Limited Permit.
5. In the event that a person is unable to complete all the requirements to obtain a Bone Densitometry Limited Permit in the 12 months' time frame, a person must repeat all course work and obtain a new course completion certificate.