# **Bureau of Radiological Health**

X-ray Equipment Operator in Podiatric Radiography Training



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**PURPOSE:** The Iowa Department of Health and Human Services (HHS) has established the minimum training standards for limited radiologic technologists. This guide should aid in making application for a training program that will meet HHS standards. It will also assist in developing the curriculum and classroom and clinical training. This guide does not apply to x-ray equipment operators in podiatry or bone dosimetry. The appendices to this guide serve to provide additional information on specific subject areas. Model procedures that the applicant may adopt are provided. The applicant may use the model procedures as an outline to develop alternative procedures for review by the HHS staff. After review of this guide, if you have specific questions, you may contact:

> **The Iowa Department of Health and Human Services Bureau of Radiological Health** Lucas State Office Building, 5th Floor 321 East 12th Street Des Moines, Iowa 50319-0075 Or, you may call 515-371-9398

## **APPLICABLE REGULATIONS**

In addition to 641-chapter 42(136C), other regulations pertaining to the technologist are found in Chapters 38, 40, and 41 of the HHS Radiation Machines and Radioactive Materials Rules. You can find the electronic version by going to <u>http://IDPH.iowa.gov/radiological-health</u>

#### DEFINITIONS

"Bone Densitometry equipment operator" performs bone densitometry using only dual energy X-ray absorptiometry equipment. Studies using CT, fluoroscopy, or non-dedicated equipment are prohibited. "Bone Densitometry" means the art and science of applying ionizing radiation to the human body using a dual energy x-ray absorptiometry unit for the sole purpose of measuring bone density. "ARRT" means the American Registry of Radiologic Technologists.

# Excerpted from Chapter 42 Rules.

## 641—42.33(136C) Standards for formal education for X-ray equipment operators in bone densitometry.

42.33(1) The following are the minimum standards:

a. A principal instructor shall have at least two years of current experience in radiography and bone densitometry and shall:

(1) Be an lowa-permitted general radiologic technologist; or

(2) Hold a current ARRT registration if the clinical site is located outside of lowa.

b. A clinical instructor shall have at least two years of current experience in radiography and bone densitometry and shall:

(1) Be an lowa-permitted limited radiologic technologist; or

(2) Be an Iowa-permitted X-ray equipment operator in bone densitometry; or

(3) Be an lowa-permitted general radiologic technologist; or

(4) Hold a current ARRT registration if the clinical site is located outside of lowa.

c. Clinical instructors shall be supervised by the principal instructor.

d. A principal instructor shall also act as clinical instructor, if applicable.

e. The following are classroom and clinical standards:

(1) A minimum of 8.0 hours of classroom instruction to include radiation safety, equipment operation, guality control, patient care, and anatomy.

(2) Clinical instruction to include positioning and a minimum of 10 projections excluding the competency projections.

(3) Clinical competency projections shall include 5 projections.

(4) All competency testing shall be directly supervised by the principal or clinical instructor. IAC 8/2/17 Public Health[641] Ch 42, p.15

(5) Clinical instructors shall directly supervise all students before the student's competency for the specific projection is documented and indirectly supervise after the student's competency for the specific projection is documented.

**42.33(2)** Department approval is required before implementing any formal education or making any changes to a formal education offering.

**42.33(3)** Administrative items for all formal education:

a. The department reserves the right to audit or evaluate any aspect of the formal education or student progress.

b. The department may at any time require further documentation.

# ONCE THE TRAINING IS COMPLETED

Upon the completion of the training program, the following must be submitted to the agency:

- I. A statement of competency from the principal or clinical instructor.
- 2. Completion certificate for the training program.
- 3. A completed Testing Proctor Form

Students DO NOT need to wait until the competencies are complete to take the exam. They won't receive their permit however until ALL competencies are completed. Records of training MUST be retained for three years.

Students must send a copy of the Initial Clinical Site Form prior to starting clinical requirements.

## FINAL TESTING OF STUDENT

Final testing will be conducted with a Bureau approved Testing Proctor (See Test Proctor Guide)

## **REQUIRED FORMS**

1. Initial Clinical Site Form—This form must be filled out by any clinical site/clinical instructor where the student may be completing Clinical Practices and/or Clinical Competencies. The completed form(s) is returned to the Principle Instructor who then forward them on to the HHS. These forms must be reviewed and approved by the HHS before students can begin their Clinical Practices and/or Clinical Competencies.

2. Clinical Practice Record Sheet—This form is used to keep track of the student's practices in each of the required areas. This form does not need to be returned to the HHS but needs to be kept by the students for at least 3 years. The example in this manual is only an example. Feel free to develop your own. Students are allowed to ask questions and/or the clinical instructor can give help during the clinical practices.

3. Clinical Competency Record Sheet—This form is used to keep track of the student's clinical competencies in each of the required areas. This form does not need to be returned to the HHS but needs to be kept by the students for at least 3 years. The example in this manual is only an example. Feel free to develop your own. Students must complete the Clinical Competencies with 100% accuracy with no help from the instructor.

4. Examination Evaluation from for Final Competency—The student should have one of these forms for EACH Clinical Competency they complete (pass or fail). This form does not need to be returned to the HHS but needs to be kept by the students for at least 3 years. The example in this manual is only an example. Feel free to develop your own.

**5. Clinical Competency Statement**—After a student has completed ALL Clinical Practices and Clinical Competencies then the Clinical Instructure will need to complete this form. **This form does need to be returned to the HHS.** If a student has utilized more than one Clinical Instructor (CI), then he or she will have the CI who completed the most number of exams fill out the form.

**6. Test Proctor Form**—Along with Clinical Competency Statement and a Certificate of Completion for the training program, a Test Proctor Form will need to be completed and sent to the HHS.

**7. HHS Exam Application**—Once a Test Proctor has been determined, an HHS Exam Application must be completed and returned along with the testing fees.

7. Application for State of Iowa Bone Densitometry Practice—Once student has received the test results and have passed the Bone Densitometry examination they may apply for their HHS Permit to Practice. This process can be completed online and it suggested that one do so at http://IDPH.iowa.gov/regulatory-programs/permits-to-practice.

Forms 1, 5, 6, & 7 are also available online at: <u>https://hhs.iowa.gov/permits-to-operate/bone-densitometry</u>

# FORMS

# Public Health

Bureau of Radiological Health Lucas State Office Building, 5th Floor 321 East 12th Street, Des Moines, IA 50319 BONE DENSITOMETRY INITIAL CLINICAL SITE FORM

Trainee:\_

(print name)

A principal instructor shall have at least two years of current experience in radiography and bone densitometry and shall:

1. Be an Iowa-permitted general radiologic technologist; or

2. Hold a current ARRT registration if the clinical site is located outside of Iowa

A clinical instructor shall have at least two years of current experience in radiography and bone densitometry and shall: 1. Be an Iowa-permitted limited radiologic technologist; or

- 2. Be an Iowa-permitted X-ray equipment operator in bone densitometry; or
- 3. Be an Iowa-permitted general radiologic technologist; or
- 4. Hold a current ARRT registration if the clinical site is located outside of Iowa

Clinical instructors shall be supervised by the principal instructor. A principal instructor may also act as clinical instructor, if applicable. All competency testing for limited radiography shall be directly supervised by the principal or clinical instructor. Clinical instructors shall directly supervise all students before the student's competency for a specific projection is documented and indirectly supervise after the student's competency for a specific projection is documented. By signing below, you are agreeing that you meet these minimum requirements.

Site where clinical education will take place :

Signature of Trainee	Date	
Principal Instructor Name (printed )		
Principal Instructor Signature	Date	
Clinical Instructor Name (printed)		
Clinical Instructor Signature	Date	

Bone Densitometry Clinical Competency Record Sheet

Clinical Practice Projections	Projections				
Exam	Projection	Date	Evaluator	Pass Fail	Fail

# Clinical Competency Projections

19	_		_	
	Fail			
	Pass Fail			
	Evaluator			
CIL	Date			
	Projection			
CIIIILAI CUIIPUININ I IUJUUU	Exam			

Clinical Evaluator

Student:

# EXAMINATION EVALUATION FORM FOR FINAL COMPETENCY

Student name

Type of Examination

Performance Objective: Given a patient and the necessary equipment, the student will demonstrate the ability to:

#### Examination Preparation - cassettes, holding devices, etc. available Yes No - laundry stocked in the room and the bathroom Yes No - room and table ready for patient Yes No Yes 🗌 No - necessary supplies available Yes No - equipment set properly - emergency equipment available for use if necessary Yes 🗌 No Examination Performance - patient dressed properly for exam Yes No checks orders Yes No Yes No - explains procedure to patient Yes 🗌 No - assists patient onto table or examination area Yes No - takes patient history and records it for physician - gives clear and concise patient instructions Yes No - positions equipment and patient properly Yes 🗌 No - makes exposure properly Yes 🗆 No - watches patient closely Yes No - works with speed and efficiency Yes No - is aware of and practices good radiation protection habits Yes No Exam Completion - critiques final examination Yes No Yes 🗌 No - checks study with Physician as necessary produces diagnostic study Yes No Yes No - places completed exam in proper area - returns patient to indicated area (their room, ER, OPT, etc.) Yes No Yes 🗌 ٦No replaces supplies as necessary - maintains a clean and neat working area Yes 🗌 No - makes sure all information is correctly recorded Yes No

The evaluator's signature verifies that the procedure was completed satisfactorily.

COMMENTS

Date:

Signature: \_\_\_\_\_

# Public Health

## Bureau of Radiological Health Lucas State Office Building, 5th Floor 321 East 12th Street, Des Moines, IA 50319 COMPLETION OF BONE DENSITOMETRY TRAINING AND STATEMENT OF COMPETENCY

Trainee:\_\_\_\_\_

(print name)

As clinical instructor for the above individual, I verify that this individual has:

- a. Demonstrated good patient care.
- b. Demonstrated appropriate radiation protection for self, staff, and patient.
- c. Been supervised by me, a general radiologic technologist, or limited radiologic technologist.
- d. Has satisfactorily completed the required competencies with 100% accuracy.

I verify that the above individual is competent to perform bone densitometry according to the Bureau of Radiological Health's requirements.

Date

Clinical Instructor Name (printed )

Clinical Instructor Signature

Address

Phone Number

**Email Address** 

# **Bureau of Radiological Health**

**Test Proctor Guide** 

- Podiatry
- Bone Densitometry

A proctor is someone who verifies that your test is administered under the proper conditions. A list of approved proctors may include professional testing centers, college testing centers, professors at colleges or universities, public school teachers, guidance counselors, school principals, school superintendents or librarians. **Proctors must not be related to the applicant, must not be a co-worker or supervisor, and must not be someone who has taken the test previously or who intends to take the test.** 

- Please have your test proctor complete the bottom portion of the form after you complete the top portion. Upon completion, please return the form to HHS.
- After a Test Proctor has been approved by the HHS, the Test Proctor will be contacted and date for the exam scheduled.
- The password for the online exam will then be sent to the Proctor for administering to the student.
- Results will be sent to the Student within 2—3 weeks.
- Three failed attempts on the examination will require the individual to repeat the formal education or complete a department-approved review program.
- If a student is unable to make the scheduled test date, it is their responsibility to contact the Test Proctor to cancel the appointment of the testing and the Test Proctor will contact the HHS to set up possible make-up date(s).
- The HHS will contact to student to rescheduled the exam date and will contact the Test Proctor with the new date.
- All questions concerning the Testing Process should be directed to:

Matthew Millard, Program Planner 3 Bureau of Radiological Health (515) 371-9398 matthew.millard@idph.iowa.gov

# Iowa Department of Health and Human Services Bureau of Radiologic Health

# **Test Proctor Form**

# TO BE COMPLETED BY THE APPLICANT:

Applicant's Name:		
Phone:	Address:	
City:	State: Z	′ір:
Email:	Test Title	
Permit # if applicable		

# TO BE COMPLETED BY THE PROPOSED TEST PROCTOR:

I hereby agree to serve as a test proctor for the above applicant. I will provide a quiet atmosphere for them to take the exam, and will monitor them during the assessment period.

Proctor's Name:			
Proctor's Title:			
Phone:Address	:		
City:	State:	Zip:	
Email:			
Testing Site:			<u> </u>
When are you available for the student to take the test	.?		
Proctor's Signature		Date:	<u> </u>
Please return this form by email, fax or mail to: matthew.millard@idph.iowa.gov Bureau of Radiological Health Lucas State Office Building 321 E. 12th Street Des Moines, IA 50319 Fax 515-281-4529			

Any questions please contact Matthew Millard at (515) 371-9398

# Public Health

# Bureau of Radiological Health Lucas State Office Building, 5th Floor 321 East 12th Street, Des Moines, IA 50319

# APPLICATION FOR X-RAY EQUIPTMENT OPERATOR IN BONE DENSITOMETRY EXAMINATION

# **INSTRUCTIONS FOR COMPLETING THIS FORM:**

Print or type the required information. Send the completed form and \$100 nonrefundable examination fee to: Iowa Department of Health and Human Services, Bureau of Radiological Health

# Lucas State Office Building, 5th Floor

321 East 12th Street

Des Moines, IA 50319

If you have any questions, please contact:

Questions: Matthew Millard @ 515-371-9398 Email: matthew.millard@HHS.iowa.gov

# APPLICANT'S INFORMATION:

First Name:			
Middle Name:			
Last Name:			
Street Address:			
City:			
Phone Number:	Date of Birt	:h:	_
Email:	SSN N	umber:	
Clinical Training Site:			

AFFIRMATION QUESTIONS: <b>Please provide responses to "Yes" questions on a separate piece</b> Do you have a medical condition, which in any way currently impairs or limits your ability to perform the duties of this profession?	of paper(s).	
Medical Condition: means any physiological, mental, or psychological condition, impairment,	Yes	No
or disorder, including drug addiction and alcoholism.		
If yes, provide a description of your condition and submit a letter from a physician stating how		
your condition will affect your ability to perform the duties of this profession.		
Have you, within the past 5 years, engaged in the illegal or improper use of drugs or other		
chemical substances?		
If yes, provide a statement and a copy of relevant documentation including	Yes	No
records from a physician or treatment program.		
Have you ever been convicted of a misdemeanor or felony crime? (You do not need to answer		
yes if your sole conviction or convictions are for minor traffic violations with fines under \$250).		
In answering this question, note that a conviction means a finding, plea, or verdict of guilt		
made or returned in a criminal proceeding, even if the adjudication of guilt is deferred, withheld,	Yes	No
or not entered. This means you must answer yes if a finding or verdict of guilt was returned		
against you in a criminal proceeding or if you plead guilty, entered a plea of nolo contendere,		
or entered an Alford plea in a criminal proceeding, even if the court expunged the matter or the		
court deferred judgment. You must submit the complaint and judgment of conviction for each		
offense.		
If yes, include the date, location, charging orders, court disposition, and current		
status (i.e. probation) for each charge.		
Has any state or other jurisdiction of the United States or any other nation ever limited, restricted,		
warned, censured, placed on probation, suspended, revoked, or otherwise disciplined a		
professional license, permit, registration, or certification issued to you?	Yes	No
	Tes	INO
If yes, include the date, location, reason, and resolution.		
Have there ever been judgments or settlements paid on your behalf as a result of a professional		
liability case?	Yes	No
f yes, include the date, location, reason, and resolution.		
Have you ever had a license, permit, registration, or certification denied, suspended, revoked,		
or otherwise disciplined by a certification body?	Yes	No
If yes, provide a description of the circumstances.		

EMPLOYER INFORMATION: (Use a	dditional pages for e	mployer information if necessary.)
Contact Type (circle one): Current Emplo	oyer No Employer	Previous Employer
First Name:	Last Name:	
Phone Number:	Email Address:	
License Number:	_ Business Name:	
Street Address:		
City:		
Comments:		
Contact Type (circle one): Current Emplo	yer No Employer	Previous Employer
First Name:	Last Name:	
Phone Number:	Email Address:	· · · · · · · · · · · · · · · · · · ·
License Number:	_ Business Name:	· · · · · · · · · · · · · · · · · · ·
Street Address:		
City:	_State:	Zip Code:
Comments:		

17

Privacy Act Notice: Disclosure of your social security number on this application is required by 42 U.S.C. § 666(a)(13) and Iowa Code § 252J.8(1). The number will be used in connection with the collection of child support obligations and as an internal means to accurately identify licensees, and may be shared with taxing authorities as allowed by law including Iowa Code § 421.18.

I hereby certify and declare under penalty of perjury that the information I provided in this document, including any attachments, is true and correct. I am responsible for the accuracy of the information provided regardless of who completes and submits the application. I understand that providing false and misleading information in or concerning my application may be cause for disciplinary action, denial, revocation, and/or criminal prosecution. I also understand that I am required to update answers or information submitted herewith if the response or the information changes.

In submitting this application, I consent to any reasonable inquiry that may be necessary to verify or clarify the information I provided on or in conjunction with this application.

I understand that this information is a public record in accordance with Iowa Code chapter 22 and that application information is public information, subject to the exceptions contained in Iowa law.

I have read the Administrative Rules governing this profession and I agree to comply with those provisions.

SIGNATURE OF APPLICANT

# Ensure that all documentation of proof of completion of the didactic and clinical education is included.

Application, fees, and required documentation should be sent to:

Iowa Department of Health and Human Services, Bureau of Radiological Health Lucas State Office Building, 5th Floor 321 East 12th Street Des Moines, IA 50319

DATE

# Iowa Department of Health and Human Services, Bureau of Radiological Health Application for State of Iowa X-Ray Equipment Operator in Bone Densitometry

Before submitting this application you are **required** to pass the HHS Certification Examination.

	Send the following to the Mailing Address given:
Mailing Address:	~Your completed application. ~A <b>nonrefundable fee</b> in a check or money order
Iowa Department of Health and Human Services,	payable to: lowa Department of Health and
Bureau of Radiological Health Lucas State Office	Human Services.
Building, 5th Floor	~Your Classroom and Clinical Education
321 East 12th Street	Completion Documentation. (New Applications Only.)
Des Moines, IA 50319	~Your transcript of CEU hours (if due.)

#### **Questions?**

Customer Support Phone: 855-824-4357 Email: adperehreg@HHS.iowa.gov Internet Address: https://hhs.iowa.gov/permits-to-operate/bone-densitometry

#### APPLICANT'S INFORMATION: (Type or print the information below.) $\Box$ This is a new address

First Name:	Middle Name:	
Last Name:		
City:	State:	Zip:
Phone Number:	Date of Birth:	
Email:	SSN:	

Reinstatement - If you allow your permit to expire you will be required to apply for reinstatement, meaning you will need to pay the \$75 fee that would be charged for a new permit. You will also be subject to investigation for working without a permit.

Select Application Type: Your renewal application should be submitted approximately 45 days before your permit expires.

□ New **\$40** □ Renewal \$40

□ Reinstatement **\$75** 

AFFIRMATION QUESTIONS: <b>Please provide responses to "Yes" questions on a separate piece o</b> Do you have a medical condition, which in any way currently impairs or limits your ability to perform the duties of this profession?	of paper(s).	
Medical Condition: means any physiological, mental, or psychological condition, impairment,	Yes	No
or disorder, including drug addiction and alcoholism.		
If yes, provide a description of your condition and submit a letter from a physician stating how		
your condition will affect your ability to perform the duties of this profession.		
Have you, within the past 5 years, engaged in the illegal or improper use of drugs or other chemical substances?		
If yes, provide a statement and a copy of relevant documentation including	Yes	No
records from a physician or treatment program.		
Have you ever been convicted of a misdemeanor or felony crime? (You do not need to answer		
yes if your sole conviction or convictions are for minor traffic violations with fines under \$250).		
In answering this question, note that a conviction means a finding, plea, or verdict of guilt		
made or returned in a criminal proceeding, even if the adjudication of guilt is deferred, withheld,	Yes	No
or not entered. This means you must answer yes if a finding or verdict of guilt was returned		
against you in a criminal proceeding or if you plead guilty, entered a plea of nolo contendere,		
or entered an Alford plea in a criminal proceeding, even if the court expunged the matter or the		
court deferred judgment. You must submit the complaint and judgment of conviction for each		
offense.		
If yes, include the date, location, charging orders, court disposition, and current		
status (i.e. probation) for each charge.		
Has any state or other jurisdiction of the United States or any other nation ever limited, restricted,		
warned, censured, placed on probation, suspended, revoked, or otherwise disciplined a		
professional license, permit, registration, or certification issued to you?	Yes	No
If yes, include the date, location, reason, and resolution.		
Have there ever been judgments or settlements paid on your behalf as a result of a professional		
liability case?	Yes	No
, If yes, include the date, location, reason, and resolution.		
, , ,		
Have you ever had a license, permit, registration, or certification denied, suspended, revoked,		
or otherwise disciplined by a certification body?	Yes	No
If yes, provide a description of the circumstances.		

# EMPLOYER INFORMATION: (leave blank if No Employer)

Current Employer			
Supervisor's Name:			
Phone Number:	Email Address:		
Business Name:	Street Address:		• • • • • • • • • • • • • • • • • • • •
City:	State:	Zip Code:	
Previo	ous Employer (if current employ	rer is less than 1 year)	
Supervisor's Name:			
Phone Number:	Email Address:		
Business Name:	Street Address:		
	-	Zip Code:	

## □ I am submitting CEU's

4 hours of continuing education is required at the end of your Biennium Date. Include a copy of your transcript showing all courses completed if this is the year you are required to report hours. If the educational organization you are working with does not have a transcript, please send copies of your certificates of completion.

(13) and Iowa Code § 252J.8 (1). The number will be used in connection with the collection of child support obligations and as an internal means to accurately identify licensees, and may be shared with taxing authorities as allowed by law including Iowa Code § 421.18.

I hereby certify and declare under penalty of perjury that the information I provided in this document, including any attachments, is true and correct. I am responsible for the accuracy of the information provided regardless of who completes and submits the application. I understand that providing false and misleading information in or concerning my application may be cause for disciplinary action, denial, revocation, and/or criminal prosecution. I also understand that I am required to update answers or information submitted herewith if the response or the information changes.

In submitting this application, I consent to any reasonable inquiry that may be necessary to verify or clarify the information I provided on or in conjunction with this application.

I understand that this information is a public record in accordance with Iowa Code chapter 22 and that application information is public information, subject to the exceptions contained in Iowa law.

I have read the Administrative Rules governing this profession and I agree to comply with those provisions.

Signature of Applicant (REQUIRED)

Date

rev 26-Mar-19; 2-Aug-23