This handbook provides important information for persons planning to take the Bone Densitometry Equipment Operator (BDEO) examination for purposes of state licensing.

EXAMINATION HANDBOOK
for State Licensing Exams
administered by ARRT in
2020
for Bone Densitometry Equipment Operator

Policies, procedures, and information in this handbook supersede previous editions. Please review this information carefully; you are responsible for understanding the contents of this handbook. Direct questions and/or correspondence to the state agency with which you applied for licensing.

Important Notice: State Licensing is Not ARRT Credentialing

The American Registry of Radiologic Technologists® does not certify and register individuals based upon the results of the Bone Densitometry Equipment Operator Examination. ARRT administers this examination program solely for use by state agencies. If you are interested in national certification and registration in bone densitometry or other disciplines, consult the www.arrt.org website or phone ARRT at (651) 687-0048.
This Examination Handbook is designed to help state licensing candidates understand and prepare for the examination. It is published for each calendar year, but changes to content specifications and policies and procedures may occur during the year so be sure to check www.staterhc.org for updates. To ensure that your exam experience is as successful as possible, you will want to read the following information very carefully and keep the handbook for future reference.

The information in this handbook supersedes that in any prior publications of the ARRT. Earlier versions may contain outdated information. It is your responsibility to obtain a handbook corresponding to the year in which your examination is to be taken, as noted on the front cover of the handbook and to familiarize yourself with the contents.

ARRT does not discriminate against individuals on the basis of their race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, familial status, disability, sexual orientation, gender identity, veteran status, age, or any other legally protected basis.

ARRT is unable to respond to questions regarding individual state licensing requirements and application procedures. Direct your questions to your state licensing agency. A link to individual state licensing agency contact information can be found at www.staterhc.org.

Watch for These Symbols

This exclamation point is your pointer to key pieces of information you need to know.

This icon tips you to ways you can streamline your journey through the examination process.

The American Registry of Radiologic Technologists®
1255 Northland Drive, St. Paul, Minnesota  55120-1155
Telephone (651) 687-0048

Visit our website at www.arrt.org

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State Licensing vs. ARRT Credentialing

Examinations for radiologic technologist state licensing are administered by The American Registry of Radiologic Technologists®, on behalf of your state licensing agency, but state licensing is not ARRT credentialing.

State Licensing

More than 75 percent of states have licensing laws covering the practice of radiologic technology. In those states, you must obtain a state license before you can work as a radiologic technologist. In addition, many states use ARRT exam scores and/or credentials when making licensing decisions.

Application to take an examination for ARRT certification and registration must be made directly to the ARRT and you must meet all other criteria for ARRT certification and registration. Under no circumstances does application to your state licensing agency constitute application to ARRT for certification and registration. ARRT and the state follow separate application procedures.

Administration of state licensing laws differs from state to state.

Direct any questions about licensing requirements to your state licensing agency. ARRT is unable to respond to questions regarding licensing requirements of specific states. See Appendix F for a list of state licensing agencies.

Examination

ARRT designs examinations in collaboration with consultants from various specialties. The exams consist of questions designed to measure the knowledge and cognitive skills underlying the performance of the major tasks typically required within the profession.

Consult the content specifications in Appendix A of this handbook for the list of topics covered by the examination. ARRT does not provide specific lists of study materials or textbooks because the exams are built using many references. ARRT neither recommends nor endorses any review programs, mock registries, or study guides for any of its examinations.

ARRT owns the copyright for the examinations. Law prohibits any attempt to reproduce all or part of the examinations. Anyone caught removing exam content from the test center, whether by physical removal or by reproducing materials from memory, will be prosecuted to the full extent of the law and will have eligibility for certification revoked. See the “Upholding Exam Security” section on the next page for more information.

Exam Fees

Fees paid to the ARRT are not refundable under any circumstances, nor can they be transferred to another discipline of examination.
Upholding Exam Security

ARRT has strict security regulations and takes exam security seriously. ARRT prohibits you from cheating on your exam or taking action that would help another candidate cheat. If you violate the regulations, you can face legal action and/or risk being banned from future testing.

Why Does Security Matter So Much?

It's a matter of public health.

Security is critical to ensuring that the examination is an accurate and reliable measure of the critical knowledge and cognitive skills underlying the tasks typically required for the practice of medical imaging, interventional procedures, and radiation therapy. In fact, subverting the integrity of ARRT's exams is illegal, based on a Minnesota law that went into effect on August 1, 2010. More information can be found by visiting www.staterhc.org.

Ask yourself: Would you want a loved one to receive care from an individual who passed the ARRT-administered exam because they got a sneak peek at questions and memorized the answers rather than having learned all the critical content that the questions scientifically sample?

Disclosing Exam Information: The Bright Line Between What's OK and What's Not

Candidates for state licensing and/or permit examinations see language in the ARRT state licensing examination handbooks, as well as the non-disclosure screens at the test center that clarify what they are agreeing to comply with regarding exam security. This language is reproduced in the box on page 14.

Failing to comply with these agreements can result in an ARRT investigation which may lead up to the invalidation of the results of the current and any prior examinations. This could also permanently bar the candidate from all future exams as well as result in the appropriate state licensing agency being notified. Violating these agreements could also lead to legal action. See Appendix G for a list of potential exam disclosure scenarios.

Questions about your responsibilities under ARRT's exam disclosure policy? Visit www.staterhc.org. A video depicting the consequences of violating this policy is available at www.arrt.org/video-library.

Candidate Agreement On Exam Disclosure

Disclosing exam information using language that is substantially similar to that used in questions and/or answers on the ARRT exams is considered an attempt to subvert the integrity of the exam when such information is gained as a direct result of having been a candidate. This includes (but is not limited to) disclosures to: students in educational programs, graduates of educational programs, educators or anyone else involved in the preparation of candidates to sit for the exam. It is also considered an attempt to subvert the integrity of the exam to receive, from an exam candidate, exam information that uses language that is substantially similar to that used in questions and/or answers on the ARRT exam from a candidate, whether requested or not, or to relay such information.

Help Us Protect Exam Security

If you know of any situations in which the security of ARRT exam materials might be compromised, we invite you to visit www.staterhc.org.

Before the Examination

Schedule an appointment to test during your assigned 90-day exam window, at any of hundreds of test centers across the U.S. and internationally.

Candidate Status Report

ARRT will mail you a Candidate Status Report (CSR) (see Appendix B) after your application fee is processed at ARRT. The CSR contains your identification information, permanent ARRT-assigned ID number, and examination window dates.

Be sure your name on your CSR matches your IDs that you will bring to the test center (see “Acceptable Forms of ID” on page 11). Notify your state immediately — and before scheduling your appointment — if any identification information is incorrect or does not match your IDs. Do not contact ARRT with identification changes.

Don't schedule your exam appointment until you receive a new CSR and verify that the information is correct. You may then proceed to schedule your exam appointment.
If you lose your CSR, contact the ARRT at 651.687.8525 and a duplicate will be mailed; if you do not receive your exam information within the anticipated processing time of four weeks, contact your state licensing agency to verify they have approved your application for examination and have forwarded your exam eligibility to ARRT.

**ARRT 90-Day Examination Window**

ARRT will assign you a 90-day exam window, which will be printed on your CSR. You should schedule your exam appointment for a date within the 90-day exam window printed on your CSR. Generally, examination windows begin on the Wednesday after your exam payment is processed at the ARRT and extend for 90 calendar days. For example, if an exam payment is processed on Thursday, April 16, 2020, the exam window begins on Wednesday, April 22, 2020, and ends on Monday, July 20, 2020.

Your exam window will close automatically after 90 days, or if you miss your appointment, your appointment is not canceled in time, if you fail to comply with the non-disclosure agreement at the test center (see page 14), the name on your IDs do not match the name on your CSR, or if you have an invalid ID. In addition, your fee is forfeited and in order to be assigned a new exam window you would have to re-apply through your state licensing agency.

**Test Centers**

ARRT examinations are administered by Pearson VUE, the electronic testing business of Pearson Education. Their network of more than 200 high-security test centers is specifically designed and built for professional licensure and certification markets in the U.S. and its territories. Certain international test centers are equipped to deliver ARRT exams in selected cities in Canada, Europe, Asia, and Australia.

A geographic list of test center locations appears in Appendix E of this handbook, but please keep in mind that location changes may occur after publication. Current test center locations and driving directions may be viewed at [www.staterhc.org](http://www.staterhc.org).

**Testing Accommodations**

To comply with the Americans With Disabilities Act (ADA), we’ll provide testing accommodations if our partner organization, Paradigm Testing, determines that you meet ADA requirements. Exam accommodations include any changes to standard testing procedures, including requests for additional time, a reader, as well as medical aids such as insulin pumps, Pico magnifiers, lumbar pillows, asthma inhalers, etc.

**Process for Exam Fees Paid Directly to ARRT**

If your state sends you information on paying ARRT directly, you must submit a Request for Test Accommodations form (located at www.staterhc.org) along with a copy of your state eligibility letter and cashier’s check or money order (personal and business checks are not accepted.) If you are requesting testing accommodations, you may not pay for your exam using the credit card option.

Once ARRT receives your information, we’ll send you instructions (including a 10-digit alpha/numeric authorization code) explaining how to submit your online request for accommodations to Paradigm Testing. You’ll also be required to submit documentation verifying the reason you need accommodations.

ARRT will not assign you an exam window until Paradigm notifies us of the approval or denial of your request for accommodations. If Paradigm denies your request, you have the option to appeal their decision.

If you request accommodations with ARRT, but do not submit your documentation to Paradigm, we will return your fee after one year and your exam eligibility will close. If you apply for accommodations and then decide you no longer wish to go through the approval process, you will need to notify ARRT by fax (651.681.3293, attn: StateRHC Coordinator) to process your exam without test accommodations.
Process for Exam Fees Paid Directly to State
If you paid your exam fee to your state licensing agency and have been assigned an exam window, do not schedule an exam appointment. You must submit a Request for Test Accommodations form (located at www.staterhc.org) to ARRT. Once ARRT receives your request form, we’ll send you instructions (including a 10-digit alpha/numeric authorization code) explaining how to submit your online request for accommodations to Paradigm Testing. You’ll also be required to submit documentation verifying the reason you need accommodations.

Do NOT schedule your exam appointment with Pearson VUE until you receive approval or denial notification of your request for accommodations. If Paradigm denies your request, you have the option to appeal their decision.

If you request accommodations with ARRT, but do not submit your documentation to Paradigm or decide you wish to test without accommodations, you may go ahead and schedule your exam appointment.

Remember, you must submit a Request for Test Accommodations form to ARRT each time you are eligible for examination. If you don’t submit the form each time you wish to take an exam, you’ll have to take your exam without accommodations for the assigned window.

If you asked for and received approval for ADA accommodations, ARRT will send you a letter with instructions on scheduling your appointment with Pearson VUE. You will need to bring your approval letter with you to your exam appointment and give it to test center staff when checking in.

Address or Name Changes
You must immediately notify your state licensing agency — not ARRT — of any changes to your name or address as submitted on your application form. Changes cannot be processed by ARRT or the Pearson VUE Call Center or at the test center.

At the test center, the name on your IDs must match your name as it appears on your CSR (the only permissible exception is middle initial versus middle name, as long as the first letters match). Name change requests must be directed to your state licensing agency at least 10 business days before your scheduled appointment to allow enough time for your information to be submitted to Pearson VUE for processing. Requests received less than 10 business days before your exam may not be processed in time, which may result in you being turned away from the test center and forfeiting your exam fee. If the name on your IDs doesn’t match your CSR, cancel your appointment (see page 9) and correct the discrepancy with your state licensing agency at the number listed on the front of your CSR. Don’t schedule a new appointment until you receive a new CSR and verify the changes are correct.

Extending an Exam Window
If circumstances make it impossible for you to schedule your examination during your assigned 90-day exam window, you may request a window extension. Direct requests to your state licensing agency at the number listed on the front of your CSR for approval. If your state approves the change, it will contact ARRT to arrange a window extension. ARRT processes window extension requests only when they are received from your state licensing agency, not from you.

If you have an existing appointment, you must cancel it before requesting a window change, scheduling a new exam date, or changing the test center location. (See “Canceling or Rescheduling Your Appointment” on page 9.)

ARRT must receive a written request from your state — not from you — for a new window on or before the last day of your current 90-day examination window. If your window expires on a weekend or holiday, the request must be received on or before the last business day prior to the expiration date. (Saturday, Sunday and holidays are not considered ARRT business days.) Your new exam window will begin on the day ARRT processes the extension request. ARRT will not accept requests for specific window dates.
ARRT cannot process requests it receives after the last day of your current 90-day exam window or if an examination appointment has been scheduled. ARRT will send you a new CSR when your request is processed.

The Exam Appointment

Once you receive your Candidate Status Report from ARRT and confirm all information is correct, you’re ready to schedule your appointment.

Scheduling Your Appointment

Pearson VUE schedules appointments on a first-come, first-served basis. As soon as you receive your CSR, you may schedule your appointment one of two ways:

- call the Pearson VUE Call Center at the toll-free phone number shown on your CSR (Monday–Friday, 7 a.m.–7 p.m. Central Time); or
- online at www.pearsonvue.com/arrt

Even if you don’t want to take your exam immediately, it’s better to schedule early to obtain your desired choice of exam date. If you delay too long in scheduling your exam, you may not find an available appointment prior to your expiration date. If your window is allowed to expire, you must re-apply with your state licensing agency.

You will be providing and receiving a great deal of important information when scheduling your appointment with Pearson VUE. It is your responsibility to manage that information each step along the way.

Have Your Information Available

When calling to schedule your appointment, you will be asked to verify your name as listed on your CSR and address and to provide your ID number from your CSR. (ARRT does not provide ID numbers over the phone.) Calls may be recorded for quality assurance purposes.

NOTE: Call Center staff cannot make changes (except adding email and phone info) to the application information you provided to your state and to ARRT. Resolve any discrepancies in name or address with your state licensing agency before you schedule your appointment.

Pearson VUE Call Center staff will help you schedule a date and time for your exam. Test centers are generally open Monday through Friday between the hours of 8 a.m. and 6 p.m. Some test centers offer extended evening or weekend hours.

Confirm Your Scheduling Information

Space is provided on the back of your CSR for you to write the date, time, confirmation number, test center location, and name of the Call Center representative. Pearson VUE will immediately email a letter confirming your appointment. The letter will include the address, phone number, and directions to the test center, as well as the date and time of your exam and other important information. Driving directions are also available at www.pearsonvue.com/arrt.

NOTE: Occasionally the email confirmation may be filtered into a SPAM folder based on the security settings of your email account. Be aware that the email confirmation comes from PearsonVUEconfirmation@pearson.com. If you do not receive an email confirmation from VUE immediately, check your filter settings and/or contact the VUE Call Center to confirm your email address on file and your appointment date and time, and request that a new confirmation email be sent.

ARRT and your state licensing agency are not able to confirm testing dates, times, or locations for your exam, nor can they provide driving directions to test centers.

Internet Scheduling

After you have been notified of your eligibility to sit for the exam, you may schedule online at www.pearsonvue.com/arrt. When you arrive at the web page, the process will differ depending on if you’re a first-time or returning user.

First-time users should click on the "Create an Account" link, where you will be asked for your ID number and personal information listed on your Candidate Status Report. Make sure the information you enter on the screen matches the information on the front of your CSR. When creating your profile, follow the prompts until you have completed the process and can select the “Finish” link. You will be provided a link to follow the prompts for scheduling your exam.

Returning users should click on the “Sign In” link. If you have forgotten your password, click on the “Forgot my Password” link and follow the prompts.

To schedule online, candidates must provide an email address. Otherwise, phone the Pearson VUE Call Center directly to schedule an appointment.
Missing Your Appointment

If you fail to keep your appointment or reschedule it as detailed in the next section your file will close and you will forfeit your exam fee. ARRT and your state licensing agency are not responsible for appointment time discrepancies between you and the test center.

Canceling or Rescheduling Your Appointment

You may cancel or reschedule an appointment up to 24 hours (one business day) prior to the scheduled appointment — either by phoning (800) 632-9055 (leaving a voicemail on an answering machine is not acceptable) or at www.pearsonvue.com/arrt (be sure to follow the prompts to complete the process). Pearson VUE will immediately send you an email confirmation each time an appointment is scheduled, changed, or canceled. If you do not receive a confirmation, contact Pearson VUE to confirm the transaction. Pearson VUE charges a $10 fee for exam appointments that are canceled or rescheduled. Pearson VUE will collect fees by credit card payment (American Express, MasterCard, Visa or Discover) at the time the appointment is canceled or rescheduled. This includes all changes made online and via the Pearson VUE Call Center.

The table below shows that appointments for a given time on the scheduled exam day must be canceled by that same time on the preceding business day:

<table>
<thead>
<tr>
<th>Scheduled Exam Day</th>
<th>Cancel/Change Deadline (same as appointment)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>Friday of the preceding week</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Monday of the same week</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Tuesday of the same week</td>
</tr>
<tr>
<td>Thursday</td>
<td>Wednesday of the same week</td>
</tr>
<tr>
<td>Friday</td>
<td>Thursday of the same week</td>
</tr>
<tr>
<td>Saturday</td>
<td>Friday of the same week</td>
</tr>
</tbody>
</table>

For example, if your exam is scheduled for 9 a.m. on Monday, you must call by 9 a.m. on Friday to cancel your appointment. VUE will follow-up with a confirmation email detailing your cancellation or appointment change information.

NOTE: National holidays and weekends are not considered business days.

If you fail to appear for your scheduled appointment and do not reschedule through the procedure above, you will forfeit your examination fee. Neither ARRT nor your state licensing agency are responsible for appointment errors. ARRT does not grant exceptions for missed appointments under any circumstances.
Exam Administration Day

Here’s a preview of what you’ll encounter when you open the test center’s front door on the day of your BDEO exam appointment.

Test Center Environment

Pearson VUE test centers provide computerized testing for many organizations. Be aware that other exams may be administered in the test center at the same time as ARRT examinations.

Most test centers are located in buildings comprised of several other offices. Waiting areas at the test centers are small. Friends, relatives or children will not be permitted to wait in the test center or to contact you during your examination.

Test center personnel try to maintain a comfortable temperature in the testing rooms. In spite of these efforts, the room may be too cool or too warm for an individual’s preference, so dress accordingly. Be aware that outerwear (overcoat, windbreaker, jacket, etc.) is not allowed in the testing room; however, clothing typically worn indoors (sweater, sweatshirt without hood, blazer) is allowed.

Keep in mind that there will be other people at the test center taking exams, so typing, coughing and/or people entering and leaving the testing room may be heard. It is impossible to provide a completely noise-free exam environment. If you feel these distractions may be disruptive to your testing, be sure to request earplugs before beginning your exam. Noise reduction headphones can also be provided.

Follow Procedures

Test center personnel adhere to designated procedures to ensure that their operations meet ARRT criteria for standardized testing. Review the following information before the examination to become familiar with the procedures.

Arrive Early

Having already confirmed the location of the test center, plan your schedule and route to ensure that you arrive at least 30 minutes before your scheduled appointment, to allow time for check-in procedures. Be sure to allow ample time for your commute, especially if inclement weather is a factor.

If you arrive at the test center 15 minutes after your scheduled appointment, you may be required to forfeit your appointment. If an appointment is forfeited, the test center will report to ARRT your failure to take the examination and your file will close. ARRT does not refund examination fees on forfeited appointments. To be considered eligible for a new examination window, you must contact your state licensing agency.
When you arrive at the test center, you will be required to show two forms of identification, both of which show your signature and your pre-printed name as it appears on your CSR. One of the IDs must be a current official government-issued photo ID. See box below for examples of the two types of IDs required.

Your name on your government-issued ID must be the same as that on record with ARRT, as reflected on your most recent CSR. Your ID may contain your full middle name as long as the middle initial on your CSR matches the first letter of your middle name. If your name has a cultural variation, ensure that the same variation appears on the CSR and both IDs.

If you arrive without proper ID or with discrepancies in your name listed on the IDs, you will not be admitted to the test center. You will not be allowed to re-schedule your exam appointment and will forfeit your examination fee. If you are admitted with questionable ID, you may have your score canceled following investigation by ARRT.

Upon checking in, you will be asked to provide a digital signature, which constitutes a) your consent for ARRT and/or Pearson VUE to retain and transmit personal data and exam responses; and b) your agreement to abide by the ARRT Rules Agreement, which will be presented to you prior to your exam.

You will also have your palm vein scanned and be photographed. If you leave the testing area for any reason, your palm will be scanned upon leaving and again before re-entering.

The palm-vein information and photo are for authentication purposes only. The information is kept confidential and not shared with any organization.

Assignment to Testing Station

Test center personnel will give you a short orientation, provide you with a copy of the ARRT Rules Agreement (See Appendix I) to read, and then escort you to an assigned workstation. You must remain in your assigned seat during your examination, except when authorized to leave by a test center staff member. You will be required to keep all personal items in a secure locker. Don’t wear jewelry that may be noisy or disruptive in the testing room. You will be asked to remove jewelry that is wider than ¼" as such items can pose a threat to exam security. If you bring a phone or other electronic device, turn off the device and store it in your locker. You may not access any electronic device until you have completed your exam and are ready to leave the test center. You cannot access items placed in a secure locker or anywhere else in the test center building for the duration of your exam unless you receive written pre-approval from ARRT. This includes breaks. Test centers assume no responsibility for candidates’ personal belongings.

If you need to leave the testing room for personal reasons, you must first raise your hand to get test center staff’s permission. No additional time is allowed to make up for lost time due to this reason. Test center staff is required to file an incident report with ARRT on any candidate that leaves the testing room for more than 10 minutes.

Test center personnel are not trained to answer specific questions related to ARRT examination content.

Acceptable Forms of Identification

**PRIMARY**: Must be government-issued, have pre-printed name, photo, and signature, and not be expired.

- Government-issued driver’s license
- State ID card
- Passport
- Military ID - bar code signature acceptable with Military IDs only

**SECONDARY**: Must have pre-printed name and signature and not be expired.

- Government-issued IDs (e.g., U.S. social security card)
- Employee ID or work badge
- Bank automated teller machine (ATM) card
- School ID
- Credit card
- Any form of ID on the primary list

Very Important! Please note that Permanent Residence Cards (“Green Cards”) or any other IDs that do not have your signature will not be accepted at the test center as valid primary or secondary identification.
Calculators and Notes

Personal calculators are not permitted. Examples of calculators are presented in the tutorial at the beginning of the exam. Both scientific and basic four-function calculators are provided on the computer, or you may request a basic four-function calculator from test center personnel. Appendix D presents facsimiles of the computer calculators.

Test center personnel will provide an erasable note board and pen, which may be replaced as needed during testing but may not be removed from the testing room at any time. You are not to use the note board until after responding to the non-disclosure agreement, and may not hold your note board up to the screen when responding to questions. You are not allowed to take scratch paper, pens, or pencils into the testing room.

Requesting Assistance

Raise your hand to notify test center personnel if:
• you need assistance adjusting the computer screen’s brightness or contrast;
• you would like a hand-held calculator;
• you need earplugs;
• an image appears too large to be fully viewed;
• you suspect a problem with the computer;
• you need another erasable note board;
• you need a break;
• you have completed your exam; or
• you need a staff member for any other reason.

Test Center Misconduct and Score Cancellation

Numerous security measures are enforced during the exam administration to ensure the integrity of ARRT exams. Be aware that you will be observed at all times while completing the exam. This includes direct observation by test center staff, as well as video and audio recording of the testing session.

Zero Tolerance Policy

ARRT has a zero tolerance policy regarding possession of cell phones and other electronic devices in the test center, as well as candidates leaving the test center building prior to completing the examination and attempting to re-enter the test center. Automatic score cancellation will result for any candidate violating this policy.

1. Under no circumstances are candidates permitted to access cell phones or any other type of electronic device after check-in at the test center. Test center personnel are instructed to dismiss any candidate found in possession of an electronic device after the candidate has completed the check-in procedures. This includes candidates on breaks.

Such electronic devices include, but are not limited to:
• cellular phones
• media players
• compact disc players or any other electronic communication/recording/listening device
• removable storage devices
• personal digital assistants (PDAs)
• calculator or computing watches
• scan pens
• laptop computers, tablets or any computer device
• photographic devices

If a candidate is found possessing, or otherwise having access to, a cell phone or any other type of electronic device during the administration of their exam, the candidate will not be allowed to continue testing and the test center administrator will file an incident report. Possession of a cell phone or any other type of electronic listening device after check-in will result in automatic score cancellation.
2. If test center staff observes a candidate leaving the test center building and re-entering the test center prior to completing the exam, the candidate will not be allowed to continue testing and the test center administrator will file an incident report. Leaving the test center building and attempting to re-enter the test center will result in automatic score cancellation.

3. Candidates should not bring papers, pamphlets, books, notebooks or study guides into the test center. If you bring these items they must remain in your locker for the duration of your exam. If you are found in possession of, or otherwise having access to, any prohibited item during the administration of your exam, you will not be allowed to continue testing and the test center administrator will file an incident report. This will also result in automatic score cancellation.

4. For any candidate demonstrating misconduct or irregular behavior during or in connection with the examination — as evidenced by observation, statistical analysis of exam responses or otherwise — the ARRT will withhold examination scores and may revoke or suspend a certificate, deny or reject an application for renewal of certification and registration, censure or take any other appropriate action. This includes permanently barring the candidate from all future examinations, terminating candidate participation in the exam and invalidating the results of that exam and any prior exam.

Examples of misconduct or irregular behavior include, but are not limited to:

- Removing items from a secured locker without prior authorization;
- Giving or receiving unauthorized help;
- Attempting to take the examination for someone else;
- Failing to follow test center staff instructions;
- Tampering with the operation of the computer or attempting to use it for any function other than completing the examination;
- Attempting to remove exam content (in any format) from the test center;
- Creating a disturbance of any kind; and
- Accessing notes, books, study guides or unauthorized electronic devices.

If found to be in violation of this policy, you may find yourself part of an ARRT ethics investigation, or even a federal court lawsuit for copyright infringement and/or breach of contract.

What if the Test Center is Closed?

If you are unsure whether a test center is closed because of inclement weather or some other factor, phone Pearson VUE’s Call Center at (800) 632-9055. If the test center is open, it is your responsibility to keep your appointment. If it is closed, you will be given the opportunity to reschedule your appointment.

In the event of a test center closing, Pearson VUE will contact you via the email address you provided during scheduling to reschedule your exam appointment. You may also call Pearson VUE to reschedule your exam.
**Exam Timing**

Time allowed for completing an examination is based on the number of questions. You must also click “A” for the non-disclosure agreement (see box at left), which appears after the tutorial and before starting the exam.

The Bone Densitometry Equipment Operator Examination allocates 1.5 hours for answering exam questions. You will have two hours total, allowing 18 minutes for the tutorial before the exam, followed by two minutes to complete the non-disclosure agreement and 10 minutes for the survey at the end of the exam. You may not use this extra half hour to answer exam questions. ARRT recommends that you complete the tutorial to familiarize yourself with the testing program and the online calculators.

Voluntary breaks are subtracted from the allowed exam time; that is, the clock is not stopped during voluntary breaks.

**Pilot Questions**

Pilot questions are unscored questions embedded in the exam. ARRT uses data from these pilot questions to evaluate new exam questions. This is a cost-effective way to develop exam materials for future candidates, just as past candidates assisted in piloting questions for today.

These questions are not identified as pilot questions, and they appear just like any other question on the exam. Up to 20 percent of your exam may be unscored pilot questions, and ARRT has allotted extra time for you to complete them. Your answers to these questions will not affect exam scores.

**Taking the Exam**

**Order of Questions**

ARRT examinations present questions in random order, which is consistent with the purposes of education and evaluation. When an individual learns an important concept, the intent is that he or she will take that knowledge beyond a specific context or environment and generalize that knowledge to the practice setting.

**Item Format**

Most exam items are standard multiple-choice with one best answer. ARRT is also introducing new formats on a limited basis. Some items may require that you select multiple answers from a list or use the mouse to sort a list of options into a particular order. A few items may require that you identify anatomic structures on an image by placing the mouse arrow (cursor) over the correct location on the screen. Others may ask you to answer a multiple-choice question after viewing a short video clip. Appendix D provides additional information on exam item formats.

**Selecting Answers**

An answer must be recorded for a question before the computer allows display of the next question. You may flag questions for later review if you are unsure of the answer. For further information, refer to Appendix D.

**Pacing**

It’s important to use your time economically. Time remaining is displayed in the upper right corner of the computer screen. If a question is difficult, guess at the answer, flag the question for review, and go on to the next question. When you have finished the examination and there is still time left, go back to the questions that you flagged and review them. (See Appendix D for more information.)

Learn more about the non-disclosure agreement in the “What to Expect on Exam Day” video at www.arrt.org/video-library.
Candidate Comments

You may comment on a specific question at the time you answer the question by clicking on the “Comment” button at the top of that page. No additional testing time is allowed during the exam for making comments on questions.

You may comment on your test center experience in the evaluation survey at the end of your exam.

Leaving the Test Center

When you are finished with the examination and evaluation survey, raise your hand and test center staff will collect the erasable note board before dismissing you. Do not leave your seat until you have been dismissed. You may not remove note boards from the testing room. Your palm will be scanned again before leaving the test center.

Appeals of Exam Administration

ARRT makes every effort to assure that examinations are fairly administered in a comfortable and safe environment.

On rare occasions, candidates may encounter technical difficulties at the test center. If you experience a technical difficulty, notify the test center administrator immediately. Test center personnel will make every effort to correct any difficulties as quickly as possible.

Should the test center experience a loss of power, back-up systems are in place, so every reasonable effort will be made to retrieve testing data. Once power is restored, you will be able to continue your testing session from the point where you were interrupted. If you are unable to continue the testing session due to severe technical difficulties, reasonable accommodations will be made, including re-scheduling of an exam appointment. ARRT will evaluate individual requests for re-scheduling at no cost.

If you believe that your examination was administered in a manner that substantially deviated from normal testing procedures, you may request a review of the procedures. If you experience a problem, verify with the test center administrator before you leave the test center that they will file a report regarding your issue—and request a copy of the incident number from that report.

If you wish to request a review, submit a completed Appeal Request Form (at www.staterhc.org) detailing the specific nature of the alleged deviation from normal testing procedures. Be sure to include your email address, along with the examination discipline, administration date and test center location.

Because ARRT will investigate complaints only if they are received before your results have been released, you have only two days to submit the request. You may fax the appeal form to 651.681.3295.

If ARRT finds that any such deviation unfairly interfered with your ability to complete the exam to the best of your ability in the allotted time, your original score will be canceled and you will be allowed to retake the examination at no cost. Under no circumstances will your score be adjusted based upon the findings of the review.
After the Examination

After the examination, all exam data is returned to ARRT, where scoring and analysis is completed. ARRT follows strict procedures to ensure accuracy of scoring.

Cancellation of Scores

ARRT may withhold or cancel scores if there is evidence that the security of the examination has been compromised. Such action may be necessary even in the absence of evidence indicating that a candidate was knowingly involved in the compromising activities. ARRT expects candidates to cooperate in any investigation. Once scores are cancelled, they are not available for reporting at a later date.

Some scores may be rendered invalid because of circumstances beyond a candidate's control, such as technical difficulties. ARRT investigates each of these situations. When this results in a cancellation of scores, ARRT arranges for a makeup administration of the exam at no additional cost.

Score Reporting

You will not see a preliminary score at the end of your exam at the test center. ARRT does not release scores to state candidates. Your score information is forwarded to your state licensing agency, which in turn determines your pass/fail status and notifies you of your official pass/fail status. Contact your state licensing agency — not ARRT — if you have not received your scores within four weeks.

Appeals of Exam Scoring

ARRT employs several quality control procedures to ensure that all examinations are scored with complete accuracy. However, you may request a review of the accuracy of the scoring process if you feel an error has occurred.

If you wish a review of scoring, complete the Appeal Request Form located at www.StateRHC.org — detailing the specific reason a scoring error is suspected. Requests must be accompanied by a $25 fee, payable to ARRT. ARRT will review your responses to each question, compare those responses to the answer key, and recalculate raw scores.

ARRT will report its findings to you within 30 days of receiving the written request. If ARRT finds evidence of any scoring error, it will cancel your original score and notify your state of the corrected score. Final passing scores are determined by your state.

Re-examination

If you fail the examination, do not appear as scheduled, answer no or do not respond to the non-disclosure agreement, or allow your 90-day exam window to expire, or you were turned away due to invalid IDs you should contact your state licensing agency for information on their re-examination process. Once your state has determined you are eligible for re-examination, they will notify ARRT. Once ARRT processes your new exam fee, a new handbook and CSR indicating your new 90-day exam window will be mailed to you.
Appendices

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D. Computer-Based Testing Overview.......................................28
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Bone Densitometry Equipment Operator

The purpose of the Bone Densitometry Equipment Operator Examination, which is made available to state licensing agencies, is to assess the knowledge and cognitive skills underlying the intelligent performance of the tasks typically required of operators of bone densitometry equipment at entry into the profession. The ARRT administers the examination to state approved candidates under contractual arrangement with the state and provides the results directly to the state. This examination is not associated with any type of certification and registration by the ARRT.

The knowledge and skills covered by the examination were determined by administering a comprehensive practice analysis survey to a nationwide sample of bone density equipment operators. The results of the practice analysis are reflected in this document.\(^1\)

The Task Inventory for Bone Densitometry Equipment Operator appears in Attachment A of this document. The content specifications identify the knowledge areas underlying performance of the tasks on the Task Inventory for Bone Densitometry Equipment Operator. Every content category can be linked to one or more activities on the task inventory.

The table below presents the major categories covered on the examination, along with the number of test questions in each category. The remaining pages of this document list the specific topics addressed within each category.

<table>
<thead>
<tr>
<th>Section</th>
<th>Number of Scored Questions(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient Care</td>
<td>12</td>
</tr>
<tr>
<td>Safety</td>
<td>8</td>
</tr>
<tr>
<td>Image Production</td>
<td>15</td>
</tr>
<tr>
<td>Procedures</td>
<td>25</td>
</tr>
<tr>
<td>Total</td>
<td>60</td>
</tr>
</tbody>
</table>

\(^1\) A special debt of gratitude is due to the hundreds of professionals participating in the project as committee members, survey respondents, and reviewers.

\(^2\) The exam includes an additional 15 unscored (pilot) questions.
Patient Care

1. Osteoporosis
   A. World Health Organization (WHO) Definition and Diagnostic Criteria
   B. Primary
   C. Secondary

2. Bone Physiology
   A. Functions of Bone
      1. structural support and protection
      2. storage of essential minerals
   B. Types of Bone
      1. cortical bone
      2. trabecular bone
   C. Bone Remodeling Cycle
      1. resorption/formation
      2. osteoblasts/osteoclasts

3. Bone Health and Patient Education
   A. Nutrition
   B. Exercise
   C. Risk Factors
      1. controllable (*e.g., smoking, alcohol, calcium, vitamin D, hormone therapy, medications)
      2. uncontrollable (heredity, race, gender, age, medical conditions)

4. Patient Preparation
   A. Patient Instructions and Explanation of Procedure
   B. Patient History
      1. medical history (e.g., bone disorder, prosthesis, peak height)
      2. contraindications (e.g., contrast agents, calcium supplements, pregnancy)
      3. clinical indications and guidelines (Bone Mass Measurement Act)
   C. Patient Factors
      1. limited mobility or mental impairment
      2. unusual anatomy, pathology, or body habitus
      3. removable artifacts
      4. pediatric patients

* The abbreviation “*e.g.,*” is used to indicate that examples are listed in parenthesis, but that it is not a complete list of all possibilities.

Safety

1. Fundamental Principles
   A. ALARA
   B. Basic Methods of Protection
      1. time
      2. distance
      3. shielding

2. Biological Effects of Radiation
   A. Long-Term Effects
   B. Radiosensitive Tissues/Organs

3. Units of Measurement
   A. Absorbed Dose (e.g., Rad/Gray)
   B. Exposure (e.g., Rem/Sievert)

4. Radiation Protection in BD
   A. General Protection Issues
      1. radiation signs posted
      2. door closed
      3. only patient and operator in room
   B. Occupational Protection
      1. scanner-operator distance
      2. personnel monitoring
      3. exposure records
   C. Patient Protection
      1. comparison levels of radiation
         a. peripheral DXA
         b. axial DXA
         c. natural background radiation
      2. strategies to minimize patient exposure
         a. patient instructions
         b. correct exam performance
Image Production

1. Fundamentals of X-ray Production
   A. Properties of X-ray Beam
      1. quality (kVp)
      2. quantity (mA)
      3. duration/time (S)
   B. Filters and Collimators
   C. X-ray Energy Production
   D. Fan Beam DXA Systems

2. Quality Control
   A. Equipment Safety (electrical, pinch points, emergency stop)
   B. Use of Phantoms and/or Calibration
   C. DXA Calibration
      1. in vivo precision study
      2. cross-calibration
   D. Troubleshooting
      1. shift or drift
      2. pass/fail
      3. need for service
   E. Record Maintenance

3. Measuring BMD
   A. Basic Statistical Concepts
      1. mean
      2. standard deviation
      3. coefficient of variation
   B. Reporting Patient Results
      1. BMD formula
      2. Z-score
      3. T-score
   C. FRAX® (WHO Fracture Risk Assessment Tool)
   D. Vertebral Fracture Assessment (VFA)
   E. Pediatric/Adolescent Scanning (ages 5-19)

4. Determining Quality in BMD
   A. Precision
   B. Accuracy
   C. Factors Affecting Accuracy and Precision
      1. scanner
      2. operator
      3. patient variables

5. File and Database Management
   A. Storage and Retrieval of Data
   B. Back-up and Archiving
Procedures

1. DXA Scanning of Lumbar Spine
   A. Anatomy
      1. regions of interest
      2. bony landmarks
      3. radiographic appearance
      4. adjacent structures
   B. Scan Acquisition
      1. patient instructions
      2. patient positioning
      3. evaluating pre-set scan parameters
   C. Scan Analysis
      1. accurate ROI placement
      2. BMC, area, and BMD
      3. T-score, Z-score
   D. Common Problems
      1. poor bone edge detection
      2. nonremovable artifacts
      3. variant anatomy
      4. fractures or pathology
   E. Follow-Up Scans
      1. unit of comparison
         a. BMD
         b. T-score
      2. reproduce baseline study

3. DXA Scanning of Forearm
   A. Anatomy
      1. regions of interest
      2. bony landmarks
      3. radiographic appearance
      4. adjacent structures
   B. Scan Acquisition
      1. patient instructions
      2. patient positioning
      3. evaluating pre-set scan parameters
      4. selection (right versus left)
   C. Scan Analysis
      1. accurate ROI placement
      2. BMC, area, and BMD
      3. T-score, Z-score
   D. Common Problems
      1. poor bone edge detection
      2. nonremovable artifacts
      3. variant anatomy
      4. fractures or pathology
   E. Follow-Up Scans
      1. unit of comparison
         a. BMD
         b. T-score
      2. reproduce baseline study
### Attachment A

**Task Inventory for Bone Densitometry Equipment Operator**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Content Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Perform routine QC tests on scanning equipment according to manufacturer guidelines.</td>
<td>IP.2.</td>
</tr>
<tr>
<td>2. Inspect and interpret results of routine QC tests and determine need for corrective action.</td>
<td>IP.2.D.</td>
</tr>
<tr>
<td>3. Arrange for corrective action or repairs based on the results of the QC tests.</td>
<td>IP.2.D.3.</td>
</tr>
<tr>
<td>4. Record results of QC tests in binder, chart, or database.</td>
<td>IP.2.E.</td>
</tr>
<tr>
<td>5. Inspect equipment to make sure it is safe and operable (*e.g., cables, cords, table pads).</td>
<td>IP.2.A.</td>
</tr>
<tr>
<td>6. Troubleshoot mechanical problems of scanning equipment.</td>
<td>IP.2.D.</td>
</tr>
<tr>
<td>8. Ensure that cross-calibration between new/existing machines is performed as needed.</td>
<td>IP.2.C.2.</td>
</tr>
<tr>
<td>9. Clean and disinfect work area.</td>
<td>PC.4.</td>
</tr>
<tr>
<td>10. Direct patients to where they can find more information about low bone density.</td>
<td>PC.1., PC.2., PC.3.</td>
</tr>
<tr>
<td>11. Answer basic questions put forth by the patient or family members (or refer them to the appropriate resources) concerning bone health, fall prevention, exercise, and nutrition.</td>
<td>PC.1., PC.2., PC.3.</td>
</tr>
<tr>
<td>12. Explain procedure of DXA exam including positioning, duration, and notification policy of results.</td>
<td>PC.4.A.</td>
</tr>
<tr>
<td>13. Record patient history relevant to bone densitometry.</td>
<td>PC.4.B.</td>
</tr>
<tr>
<td>15. Determine if patient has recently received a radiopaque contrast agent or radionuclide.</td>
<td>PC.4.B.2.</td>
</tr>
<tr>
<td>16. Determine if patient has recently ingested contraindicated medications or supplements (*e.g., calcium).</td>
<td>PC.4.B.2.</td>
</tr>
<tr>
<td>17. Question female patients of childbearing age about possibility of pregnancy.</td>
<td>PC.4.B.2.</td>
</tr>
</tbody>
</table>

* The abbreviation "e.g.," is used to indicate that examples are listed in parenthesis, but that it is not a complete list of all possibilities.
### Activity Table

<table>
<thead>
<tr>
<th>Activity</th>
<th>Content Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>20. Determine if patient anatomy, pathology, or other limitations require special consideration in patient positioning.</td>
<td>PC.4.C.2.</td>
</tr>
<tr>
<td>21. Ensure that artifact-producing objects (e.g., zippers, buttons, jewelry) within scan area have been removed from the patient.</td>
<td>PC.4.C.3.</td>
</tr>
<tr>
<td>22. Prevent unnecessary persons from remaining in the area during x-ray exposure.</td>
<td>S.4.</td>
</tr>
<tr>
<td>23. Take appropriate precautions to minimize occupational x-ray exposure.</td>
<td>S.</td>
</tr>
<tr>
<td>24. Take appropriate precautions to minimize x-ray exposure to patient.</td>
<td>S.</td>
</tr>
<tr>
<td>25. Provide mobility assistance to patients with disabilities or limited mobility.</td>
<td>PC.4.C.</td>
</tr>
<tr>
<td>26. Assist patient onto and off the scanning table.</td>
<td>PC.4.C.</td>
</tr>
<tr>
<td>27. Review patient records and provider’s request to determine appropriate anatomical sites to scan.</td>
<td>PC.4.B.</td>
</tr>
<tr>
<td>31. Enter accurate patient data necessary to initiate scan to utilize correct reference data.</td>
<td>IP.3.</td>
</tr>
<tr>
<td>32. Select appropriate exam modes and perform necessary scans.</td>
<td>IP.</td>
</tr>
<tr>
<td>34. Evaluate accuracy of vertebral labels and intervertebral markers for scan of lumbar spine and modify if necessary.</td>
<td>P.1.C.</td>
</tr>
<tr>
<td>35. Evaluate automatic placement of region of interest (ROI) and modify if necessary.</td>
<td>P.1.C., P.2.C., P.3.C.</td>
</tr>
<tr>
<td>37. Compare bone density measurements from two different occasions (for same patient) to assess changes over time.</td>
<td>P.1.E., P.2.E., P.3.E.</td>
</tr>
<tr>
<td>38. Evaluate scan results for technical problems (e.g., incorrect scan mode or site) and take corrective action.</td>
<td>IP.4.</td>
</tr>
</tbody>
</table>
### Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Content Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>39. Review scan results to identify bone density measurements that may be inaccurate due to artifacts, unusual anatomy, pathology, or positioning problems and rescan if necessary.</td>
<td>P.1.D., P.2.D., P.3.D.</td>
</tr>
<tr>
<td>40. Review scan results to determine if scanning an additional site is required in order to obtain more precise bone density measurements.</td>
<td>IP.4.</td>
</tr>
<tr>
<td>41. Identify bone density measurements that require interpreting provider’s attention (e.g., low T-score, unreliable results).</td>
<td>IP.3.A., IP.3.B.</td>
</tr>
<tr>
<td>42. Utilize FRAX® tool to assess 10-year fracture risk.</td>
<td>IP.3.C.</td>
</tr>
<tr>
<td>43. Maintain patient records to include the archiving, copying, deleting, and retrieving functions.</td>
<td>IP.5.</td>
</tr>
<tr>
<td>44. Perform bone densitometry scans using a fan beam system.</td>
<td>IP.1.</td>
</tr>
<tr>
<td>45. Perform and analyze bone densitometry scans of the forearm utilizing DXA equipment.</td>
<td>IP.1.</td>
</tr>
<tr>
<td>46. Perform and analyze bone densitometry scans of the proximal femur utilizing DXA equipment.</td>
<td>P.2.</td>
</tr>
<tr>
<td>47. Perform and analyze bone densitometry scans of the lumbar spine PA utilizing DXA equipment.</td>
<td>P.1.</td>
</tr>
<tr>
<td>49. Perform and analyze bone densitometry scans on pediatric patients (ages 5-19) utilizing DXA equipment.</td>
<td>IP.3.E.</td>
</tr>
</tbody>
</table>
EXAMINATIONS IN RADIOLOGIC TECHNOLOGY

BDEO CANDIDATE STATUS REPORT

Please review the following information very carefully and contact your state licensing agency with any corrections. Please read your handbook for complete examination details.

YOU MUST USE THE ID NUMBER BELOW WHEN SCHEDULING YOUR APPOINTMENT WITH PEARSON VUE

DATE: 04/15/2020

JOHN Q. PUBLIC
APARTMENT 1
MAIN STREET
ANYTOWN, USA 00000

ID#: 999999

SOCIAL SECURITY NUMBER: 123-45-6789
FOR THE STATE OF: YOUR STATE
BIRTHDATE: 05/17/1979 DIRECT QUESTIONS TO: (555) 999-9999
EXAMINATION CATEGORY: BONE DENSITOMETRY EQUIPMENT OPERATOR
WINDOW START DATE: 04/22/2020
WINDOW END DATE: 07/20/2020

You have been assigned to take the examination indicated above based upon information you supplied to your state licensing agency. Please review the above information carefully and contact your state licensing agency at the number listed above if there are any corrections or changes before scheduling your exam.

At the test center, you will be required to show two forms of identification. One must be a government-issued ID which contains a permanently affixed photo along with a signature and must not be expired. The second ID must contain your pre-printed name and signature and must not be expired. The names appearing on both IDs must match the name appearing at the top of this status report. If your name has a cultural variation, make sure the same variation appears above and on both IDs. Please see the list of acceptable IDs and name requirements in your Examination Handbook. Test center administrators have been instructed not to admit anyone to the test center not having the required suitable IDs. Fees will not be refunded if you are denied admission to the test center for failure to provide suitable identification.

• Please direct all questions and personal information changes to your state licensing agency at the number listed above.
• Your score from this examination cannot be used for current or future certification and registration by the ARRT.
• Your score from this examination is valid only for state licensing purposes.
• Your exam results information will be provided to you by your state licensing agency. Do not contact ARRT for your exam results.

See Reverse Side for Instructions on Scheduling Your Appointment

(12/19)
To schedule, confirm, change, or cancel your examination date, time, or location
Call Pearson VUE at 1-800-632-9055

Record Your Exam Scheduling Information Here

- Call Center Representative:  
- Confirmation Number:  
- Date:  
- Time:

Scheduling or Changing the Appointment
It is your responsibility to contact Pearson VUE to schedule the date, time, and location of your exam. Your exam must be completed between the assigned window dates printed on this Candidate Status Report. If you fail to complete your exam during your assigned exam window, your file will close and you will need to contact your state licensing agency to reapply.

Please call the Pearson VUE Call Center at 1-800-632-9055 to schedule your appointment. You may also schedule your appointment via the Internet at www.pearsonvue.com/arrt, where you will have to provide a return e-mail address. Shortly after scheduling your appointment, Pearson VUE will send an email confirmation letter to you listing your appointment time and date, testing center location and directions to the testing center. See your Examination Handbook for appointment scheduling and confirmation information.

If you find it necessary to change your examination appointment, you must first call Pearson VUE to cancel your existing appointment in accordance with the guidelines printed in your Examination Handbook before requesting a new exam date or making changes in the test center location. Pearson VUE will charge a fee for each canceled or rescheduled appointment. (See your Examination Handbook for complete details.)

Changing Your ARRT 90-Day Examination Window Dates
If it is necessary to change your ARRT 90-day examination window, you must first call Pearson VUE to cancel your existing appointment BEFORE requesting an examination window change with your state licensing agency. Window dates cannot be changed if an appointment is scheduled. Requests for changes in the examination window dates must be submitted to your state licensing agency (not ARRT) for approval on or before the last day of your current 90-day exam window.

Calculators
Personal calculators are prohibited for examinations in all disciplines. You may use the basic 4-function calculator or scientific calculator provided on the computer or you may request a hand-held, basic 4-function calculator from the test center administrator.

Results
Examination results are not given at the test center or provided by the ARRT under any circumstances. Examination results will be provided to you by your state licensing agency. Please allow four weeks for reporting of examination scores. If results are not received within four weeks, please contact your state licensing agency at the number on the front of this CSR, not the ARRT.

Appeals
You must notify ARRT in writing of any negative situations that may have affected your exam performance by submitting a completed Appeal Request Form (located at StateRHC.org) within two days of your exam. ARRT will not investigate complaints it receives after results have been processed and sent to your state licensing agency. You must fax your appeal to (651) 681-3295. (See Examination Handbook for complete details.)

Notice of Possible Changes to Exam Content Specifications
If you delay taking the exam after you receive this CSR, be aware that we periodically update the exam content specifications. You might need to prepare for new content on the exam. You can find the current exam content specifications at www.StateRHC.org.

ALL CHANGES OR REQUESTS MUST BE MADE DIRECTLY TO YOUR STATE LICENSING AGENCY AT THE PHONE NUMBER LISTED ON THE FRONT OF THIS STATUS REPORT

(12/19)
Sample Questions for the BDEO Exam

DIRECTIONS: Each of the questions or incomplete statements below is followed by four suggested answers or completions. Select the one that is beset in each case.

1. Osteoporosis most directly affects which anatomical system?
   a. digestive
   b. limbic
   c. skeletal
   d. urinary

2. Which of the following patients would have a contraindication for a DXA hip scan?
   a. Patient with (single) hip replacement
   b. Patient might be pregnant
   c. Patient is taking steroids
   d. Patient has a broken arm

3. If the total lumbar spine BMC is 45 g, and the area is 60cm², what is the BMD?
   a. 1.33 g/cm²
   b. 1.05 g/cm²
   c. 0.75 g/cm²
   d. 0.27 g/cm²

Item 4 refers to the anatomical sketch below.

4. Which of the following anatomical sites is required to determine forearm length for measuring bone density?
   a. 1
   b. 2
   c. 3
   d. 4
Computer-Based Testing Overview

After you have completed check-in procedures, test-center staff will show you to a work station and will make sure the computer is ready to deliver your exam. The testing session consists of four segments:

1. **Introduction, Tutorial, and Non-Disclosure Agreement:** During this segment, the computer will verify your name and allow you to complete a tutorial if you choose. We strongly urge candidates to spend the few minutes to take the tutorial. You will also be asked to read and accept a non-disclosure agreement – it requires that all candidates agree to **not** copy any test questions or otherwise disclose the content of the exam. You must accept the terms of the non-disclosure agreement; if you do not respond within 2 minutes your exam session will end. The entire introductory segment will take anywhere from a few minutes up to 20 minutes, depending on how much time you spend reviewing the tutorial.

2. **Examination Session:** You will be given the exam during this period. In addition to answering questions, you can mark questions for later review or even comment on questions. The clock will be running, so pace yourself. Most questions are in the standard multiple-choice format and require you to select one best answer. In addition, a small portion of the exam may consist of the question formats noted below:
   a. **Select Multiple:** This format consists of a question or statement followed by a list of 4 to 10 response options. You are required to select all options that are correct.
   b. **Sorted List:** This format presents a list of 4 to 8 options and requires you to place them in correct sequence. You accomplish this by using the mouse to "click-and-drag" the options into a box so that they end up in a specified order, such as numerical, alphabetical or chronological.
   c. **Items with Hot Areas or Videos:** This format consists of a question accompanied by a medical image, drawing, graphic, or video.
      To answer a "hot area" question, place the cursor over the selected area and click the mouse; the highlighted areas are possible answers to the question. When selected, the area will become outlined and change color. To change your answer, move the mouse to another shaded area and click the mouse. The final selected shaded area will be recorded as your final answer.
      For video items, you will need to read the question, open the exhibit, press the play arrow on the video, watch the video in its entirety, and then answer the question. You will not be able to move forward on the exam until you have opened and watched the entire video. The video controls are shown and described below. 
      **Note:** The videos are silent (no sound).

3. **Item Review and End Review:** After responding to all questions, you will have the opportunity to go back and review questions in the time remaining. You can change answers during the review. Once you select the "End Review" button you will no longer be able to go back to the exam. A sample review screen appears later in this Appendix.

4. **Survey:** After the exam a short survey consisting of 13 questions will appear. Most people complete it in just a few minutes. The survey is important because it gives you the opportunity to let ARRT know about the quality of your testing experience. If something went wrong – or exceptionally right – this is the place to tell us.

The following pages illustrate the approximate appearance of a few of the more important computer screens. Taking a few minutes now to review these pages will help prepare you for exam day.
**Appearance of Test Questions**

When the examination starts, the clock will be reset to the time allowed for the exam you are taking (see Exam Timing under the Exam Administration Day Section of the handbook to find the time allotted for your exam). Exam questions are presented in random order. The exam consists of a set number of scored questions plus several unscored pilot questions. The content specifications provide additional information about the number of questions and topics covered.

---

This button allows you to mark questions for later review. If uncertain of the best answer, then choose your best guess and flag the question for later review by clicking on the flag icon.

The clock indicates the time left to complete the exam.

You can comment on specific exam questions by clicking on the “Comment” button. The “Calculator” button gives access to an on-screen calculator (see next page).

The counter indicates which question you are on and the total number of questions on the exam.

Here is the exam question. Choose one best answer by clicking the appropriate oval or letter (A, B, C, D). If the question requires a graphic, it will also appear on the screen.

Click on these buttons to go back to the previous question or ahead to the next one.
Online Calculator

To use the calculator, click on the “Calculator” button at the upper left side of the exam screen. You can operate the calculator by using the mouse to click on numbers or arithmetic operations. Alternatively, the keyboard can be used. **Note:** Please make sure to check the display screen on the calculator to verify the correct entry of numbers.

The “Modes” button on the calculator allows you to toggle between the Standard and Scientific calculators. Note that most calculations on the exam can be done with the Standard calculator. However, some candidates may wish to use the Scientific calculator for certain calculations.

Some calculations may require the use of the natural logarithm function (“ln” key) or the e^x function (“2nd” key, then “ln” key). First press the key for the function that you would like, then enter the relevant number for the calculation.
Exam Review

After you have completed all questions on the exam, a screen appears that allows you to go back to review questions. A filled-in flag icon appears next to any questions that you selected for review.

After the Examination

After you click “End Review” and confirm that you will not be able to return to the exam, a screen will appear to remind you not to discuss questions and/or answers with anyone.

A short survey appears on the screen. It asks a few important questions about the quality of the test administration and provides a place for you to type any general comments. We appreciate your feedback.
Appendix E – Test Centers

Pearson VUE Test Centers

This list may change after publication in this handbook. For an up-to-date list at any time, check the www.pearsonvue.com/arrt website.

Alabama
Birmingham
Decatur
Dothan
Mobile
Montgomery

Alaska
Anchorage

Arizona
Chandler
Phoenix
Tempe
Tucson

Arkansas
Fort Smith
Little Rock
Pine Bluff
Texarkana

California
Alhambra
Anaheim
Culver City
Daly City
Fairfield
Fresno
Gardena
Lake Forest
Milpitas
Oakland
Ontario
Pasadena
Redding
Redlands
Roseville
Sacramento
San Diego
San Dimas
San Marcos
San Mateo
San Francisco
Santa Maria
Visalia
Westlake Village

Colorado
Colorado Springs
Greenwood Village
Westminster

Connecticut
Norwalk
Wallingford
Wethersfield

Dist. of Columbia
Washington

Delaware
Dover
Newark

Florida
Altamonte Springs
Deerfield Beach
Doral
Gainesville
Jacksonville
Lake Worth
Orlando
Pembroke Pines
Plantation
Port Charlotte
St. Petersburg
Tallahassee
Tampa

Georgia
Albany
Atlanta
Augusta
Macon
Savannah
Stockbridge

Hawaii
Honolulu

Idaho
Boise

Illinois
Buffalo Grove
Chicago
Champaign
Deerfield
Evanston
Flossmoor
Hoffman Estates
Highland Park
Hinsdale
Hoffman Estates
Huntley
Joliet
Kankakee
Kane County
Kendall County
Kirkland
Lake Forest
Lake Zurich
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Appendix F – State Licensing Agencies

State Licensing Agencies

This list may change after publication in this handbook. For an up-to-date list at any time, check www.arrt.org.

Arizona  602.364.2079  Arizona Department of Health Services
Bureau of Special Licensing
150 N 18th Avenue, Suite 410
Phoenix, AZ 85007

Arkansas  501.661.2301  Arkansas Department of Health
Radiologic Technology Licensure Program
Freeway Medical Building, Suite 100
5800 W 10th St.
Little Rock, AR 72204

California  916.327.5106  CDPH, Radiological Health Branch – Certification
PO Box 997414, MS #7610
Sacramento, CA 95899-7414

Colorado  303.692.3448  Colorado Department of Public Health and Environment
Radiation Control Program HMWMD – X-Ray Certification Unit
4900 Cherry Creek Dr. S., #B1
Denver, CO 80246-1530

Connecticut  860.509.7603  Department of Public Health – Radiographer Licensure
410 Capitol Ave, MS #12APP
Hartford, CT 06134-0308

Delaware  302.744.4546  Division of Public Health – Office of Radiation Control
417 Federal St.
Dover, DE 19901

Florida  850.488.0595  Florida Department of Health – Radiologic Technology Certification
4052 Bald Cypress Way, Bin C85
Tallahassee, FL 32399-3285

Illinois  217.785.9913  IEMA
1035 Outer Park Dr.
Springfield, IL 62704

Indiana  317.233.7565  IDPH, Medical Radiology Services
2 North Meridian St., 4 Selig
Indianapolis, IN 46204-3003

Iowa  515.281.0415  Iowa Department of Public Health, Bureau of Radiological Health
Lucas State Office Bldg., 5th floor
321 E 12th St
Des Moines, IA 50319

Kentucky  502.782.5687  Kentucky Board of Medical Imaging & Radiation Therapy
125 Holmes St, Suite 320
Frankfort, KY 40601
### Appendix F – State Licensing Agencies

<table>
<thead>
<tr>
<th>State</th>
<th>Phone Number</th>
<th>Agency Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maine</td>
<td>207.624.8626</td>
<td>Radiologic Technology Board of Examiners</td>
<td>State House Station #35</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>617.242.3035</td>
<td>MA Dept. of Public Health – Radiation Control Program</td>
<td>Schrafft Center, Suite 1 M2A</td>
</tr>
<tr>
<td>Minnesota</td>
<td>651.201.4545</td>
<td>Department of Health</td>
<td>Indoor Environments and Radiation Section, X-Ray Unit</td>
</tr>
<tr>
<td>Montana</td>
<td>406.841.2300</td>
<td>Montana Board of Radiologic Technologists</td>
<td>PO Box 200513, 301 South Park, 4th floor</td>
</tr>
<tr>
<td>Nebraska</td>
<td>402.471.2118</td>
<td>DHHS Licensure Unit</td>
<td>PO Box 94986</td>
</tr>
<tr>
<td>New Jersey</td>
<td>609.984.5890</td>
<td>New Jersey Dept. of Environmental Protection</td>
<td>Bureau of X-ray Compliance</td>
</tr>
<tr>
<td>New Mexico</td>
<td>505.476.8633 ext. 1009</td>
<td>Medical Imaging and Radiation Therapy Program</td>
<td>PO Box 5469</td>
</tr>
<tr>
<td>New York</td>
<td>518.402.7580</td>
<td>Bureau of Environmental Radiation Protection</td>
<td>NY Dept. of Health</td>
</tr>
<tr>
<td>North Dakota</td>
<td>701.425.0861</td>
<td>North Dakota Medical Imaging &amp; Rad Therapy Board</td>
<td>PO Box 398</td>
</tr>
<tr>
<td>Ohio</td>
<td>614.752.4319</td>
<td>Ohio Dept. of Health</td>
<td>Radiologic Technology Section</td>
</tr>
<tr>
<td>Oregon</td>
<td>971.673.0215</td>
<td>Oregon Board of Medical Imaging</td>
<td>800 NE Oregon St., Suite 1160A</td>
</tr>
<tr>
<td>State</td>
<td>Phone</td>
<td>Address</td>
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<tr>
<td>South Carolina</td>
<td>803.771.6141</td>
<td>South Carolina Radiation Quality Standards Association</td>
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<tr>
<td></td>
<td></td>
<td>PO Box 7515</td>
<td></td>
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<td></td>
<td></td>
<td>Columbia, SC 29202</td>
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<tr>
<td>Tennessee</td>
<td>615.292.5006</td>
<td>Limited Scope Testing, Inc.</td>
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<tr>
<td></td>
<td></td>
<td>420 E Iris Drive</td>
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<td></td>
<td>Nashville, TN 37204</td>
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<tr>
<td>Texas</td>
<td>512.305.7030</td>
<td>Texas Medical Board</td>
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<td></td>
<td></td>
<td>PO Box 2029</td>
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<td></td>
<td></td>
<td>Mail code 240</td>
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<td></td>
<td></td>
<td>Austin, TX 78768</td>
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<tr>
<td>Utah</td>
<td>800.733.9267</td>
<td>PSI Exams LLC</td>
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<tr>
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<td></td>
<td>(for Limited Scope and Bone Densitometry Equipment Operator exams)</td>
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<td></td>
<td></td>
<td>3210 E Tropicana Ave</td>
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<td></td>
<td>Las Vegas, NV 89121</td>
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<td></td>
<td>801.530.6628</td>
<td>Division of Occupational and Professional Licensing</td>
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<td></td>
<td></td>
<td>160 East 300 South / PO Box 146741</td>
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<tr>
<td></td>
<td></td>
<td>Salt Lake City, UT 84114-6741</td>
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<tr>
<td>Virginia</td>
<td>804.367.3051</td>
<td>Commonwealth of Virginia Dept. of Health Professions</td>
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<td>Board of Medicine</td>
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<td>Perimeter Center, Ste. 300</td>
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<td></td>
<td>9960 Mayland Dr.</td>
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<td>Richmond, VA 23233</td>
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<tr>
<td>Washington</td>
<td>360.236.4700</td>
<td>Department of Health</td>
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<td>Radiologic Technology Program</td>
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<td></td>
<td>PO Box 47852</td>
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<td></td>
<td>Olympia, WA 98504-7852</td>
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<tr>
<td>Wisconsin</td>
<td>608.266.2112</td>
<td>Wisconsin Department of Safety and Professional Services</td>
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<tr>
<td></td>
<td></td>
<td>1400 Washington Ave</td>
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<td></td>
<td></td>
<td>PO Box 8935</td>
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<tr>
<td></td>
<td></td>
<td>Madison WI 53708</td>
<td></td>
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<tr>
<td>Wyoming</td>
<td>307.777.5403</td>
<td>Wyoming State Board of Radiologic Technologist Examiners</td>
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<tr>
<td></td>
<td></td>
<td>Emerson Bldg., Rm. 104</td>
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<tr>
<td></td>
<td></td>
<td>2001 Capitol Ave</td>
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<tr>
<td></td>
<td></td>
<td>Cheyenne, WY 82002</td>
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## Potential Exam Disclosure Scenarios

<table>
<thead>
<tr>
<th>Scenario</th>
<th>When it’s OK</th>
<th>When it’s not OK</th>
<th>Bottom line</th>
</tr>
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<tbody>
<tr>
<td>Educator asking candidates to “stop by” after the exam to “let me know how it went.”</td>
<td>If the invitation and the feedback to the educator relates to their general experience (“I thought the test was not as difficult as I expected…”)</td>
<td>This type of invitation from an educator may be misinterpreted by the candidate — and the student may think that the educator is asking the candidate to reveal copyrighted information.</td>
<td>If the candidate is asked to reveal ARRT’s items or their answer options, then he or she will need to report the educator to the ARRT Ethics Committee. The educator should stop the candidate immediately from revealing any exam content, since doing so may subject the educator to ARRT’s ethics process.</td>
</tr>
<tr>
<td>Candidate tells another candidate, “The test was very difficult — I felt like I didn’t have enough time.”</td>
<td>The candidate is simply telling another candidate how they felt about the exam. This is all right because the candidate is not revealing any of ARRT’s items or the answer options.</td>
<td>One candidate (or potential candidate) asks another candidate questions about the specific items.</td>
<td>If ARRT’s items or answer options are shared, these individuals may find themselves part of an ARRT investigation and/or legal complaint as well as possible notification to their state licensing agency.</td>
</tr>
<tr>
<td>Candidate to educator: “You didn’t teach me about this item that asked [specific item]. I felt unprepared.”</td>
<td>Never.</td>
<td>It is not all right and it will never be all right to reveal ARRT’s copyrighted items (or answer options) to anyone.</td>
<td>Candidates agree to the Non-Disclosure Agreement at the beginning of their exam stating that they will not share exam items, and ARRT expects the examinees to abide by the agreement. Those who don’t may find themselves part of an ARRT investigation and/or legal complaint as well as possible notification to their state licensing agency.</td>
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<td>Candidate tells a potential candidate that there were multiple-choice and sorted-list items on the test.</td>
<td>This is public information, noted in the handbook.</td>
<td>It’s not all right to reveal anything beyond what’s in the handbook.</td>
<td>Keep the conversation limited to what’s public information, such as the content specifications, and there’s no problem.</td>
</tr>
<tr>
<td>Candidate asks another candidate, “I don’t think that I understood this question...[relates question]...Do you know what they were asking?”</td>
<td>Never.</td>
<td>It is not all right and it will never be all right to reveal ARRT’s copyrighted items (or answer options) to anyone.</td>
<td>As noted two boxes up, candidates agree to the Non-Disclosure Agreement stating that they will not share exam items, and ARRT expects the candidates to abide by the agreement. Those who don’t may find themselves part of an ARRT investigation and/or legal complaint as well as possible notification to their state licensing agency.</td>
</tr>
<tr>
<td>Candidate says to a potential candidate, “If I were you, I would bring a sweater — it was cold at the test site.”</td>
<td>This candidate is simply telling another candidate about their surroundings at the test site. This is all right because the candidate is not revealing any of ARRT’s items or the answer options.</td>
<td>If it leads a candidate (or potential candidate) to ask another candidate questions about the specific items.</td>
<td>If ARRT’s items or answer options are shared, these individuals may find themselves part of an ARRT investigation and/or legal complaint as well as possible notification to their state licensing agency.</td>
</tr>
<tr>
<td>Potential candidate says to a candidate, “Were there a lot of questions on [specific topic]?”</td>
<td>Never.</td>
<td>This candidate should be aware of the topics that are contained in the exam from the content specifications published in the handbook and should not be asking for more specific information than is contained in that publication.</td>
<td>If the potential candidate is asking the candidate to reveal ARRT’s items or their answer options, then this conversation violates the Non-Disclosure Agreement the candidate agreed to at the beginning of the exam. If asked this type of question, the potential candidate should be shown the content specifications and should be warned of the consequences of revealing ARRT’s copyrighted items or their answer options.</td>
</tr>
</tbody>
</table>
FAQs: State Licensing and Exam Procedures

**Question:** How do I become licensed to work in my state?

**Answer:** ARRT contracts with more than 25 states for administering ARRT exams to state license/permit candidates. Each state has rules and regulations that identify the qualifications required for a person to become licensed in that specific state. Contact your state licensing agency to find out more information. The list of radiologic technologist state licensing agencies is provided at www.staterhc.org.

**Question:** I sent my state exam application to the state. How long does it take to process?

**Answer:** States vary on how long it takes to process an application. Please allow up to four weeks for processing. If you have not heard from your state agency after that time, you may want to give them a call.

**Question:** I received my Candidate Status Report (CSR) and some of the information is incorrect.

**Answer:** The information on your CSR was provided to the ARRT by your state licensing agency. Contact your state licensing agency to make sure they have all of your correct information. After you contact your state, they will notify the ARRT of any corrections that should be made to your file. ARRT will make the correction(s) and send a new CSR to you. ARRT cannot update your information (i.e., name, address, SS#, and date of birth) without notification from your state licensing agency.

**Question:** I have an ADA-qualifying disability and require testing accommodations. What do I need to do?

**Answer:** The ARRT provides reasonable testing accommodations in accordance with the Americans with Disabilities Act (ADA). Candidates needing testing accommodations are required to submit appropriate documentation demonstrating that they have an ADA-qualifying disability. Complete information regarding required ADA documentation can be found in this handbook and at www.staterhc.org.
Question: English is my second language and I need more time for taking my exam. What do I need to do?

Answer: English as a second language is not covered by the Americans with Disabilities Act; therefore, testing accommodations cannot be provided.

Question: I called Pearson VUE to schedule my appointment but they said they don’t have a record for me. What happened?

Answer: When calling Pearson VUE to schedule your appointment, you must have a current CSR indicating you have a current exam window. You must also provide Pearson VUE with the ARRT-assigned ID number that is located on your current CSR. If you do not provide this ID#, VUE will not be able to locate your test file.

Question: Where can I find study material?

Answer: ARRT does not provide specific lists of study materials or textbooks, nor does it recommend or endorse any review programs, mock registries, or study guides. ARRT exams are developed using many references. Please review the appropriate exam content specifications for an outline of the topics included on the exam. Content specifications can be found at www.staterhc.org and in the handbook appendix.

Question: Due to unforeseen circumstances, I am unable to schedule my exam during my current 90-day exam window. How can I change my state examination window?

Answer: You must request a window extension from your state licensing agency. Not all state agencies will allow a candidate to extend the 90-day exam window due to temporary license expiration dates. If your state approves a window extension for you, the state will notify ARRT via email. It is important to note that you must cancel an existing exam appointment before requesting an extension. In addition, window extension requests must be made before your current exam window expires. ARRT cannot extend an exam window if there is an appointment appearing on your file or if your window has expired. ARRT will send a new CSR with a new exam window to you after we have processed your window extension request.

Question: My exam appointment is scheduled for tomorrow afternoon but I can’t make it. What do I do?

Answer: Appointments must be cancelled at least 24 hours (one business day) prior to the scheduled appointment. If less than 24 hours remain until your scheduled appointment, you will be required to keep the appointment. If you do not show up for the appointment, you will lose your exam fee, your file will be closed and your exam window will end. Please note that appointments for Monday must be canceled no later than the appointment time on Friday.
**Question:** The weather was bad, causing me to arrive 30 minutes late for my exam appointment, and the test center administrator wouldn’t let me take my exam.

**Answer:** Candidates are responsible for showing up for their appointments on time, even if the weather is bad. If bad weather is forecast for your area, plan extra time for your commute. It’s better to arrive early and have time to sit and relax than to rush to get there on time and be stressed out. If bad weather is forecast, it might even be easier to cancel your appointment in advance and reschedule it for a later date when the bad weather has passed.

**Question:** The name on my government-issued driver’s license has an extra name which is not on my Candidate Status Report (CSR), so I was not able to take my exam. Why not? What now?

**Answer:** Security at the test centers is strictly enforced – which includes making sure the name on your government-issued photo ID matches the name you submitted on your application to the state. Play it safe. When you receive your CSR, verify that the name matches exactly the way it appears on the identification documents you will use at the test center. It’s better to be prepared than be turned away at the test center, causing your exam fee to be forfeited and your exam window to be closed. Candidates turned away due to a name discrepancy are required to contact their state licensing agency to find out the process to again become eligible for the exam.

**Question:** The test center would not let me use my own calculator for my exam.

**Answer:** Scientific and basic 4-function calculators are embedded in the exam for your use. If you don’t feel comfortable using one of the embedded calculators, test centers are equipped with basic 4-function, hand-held calculators. You may request a hand-held calculator when you check in. Personal calculators are not allowed under any circumstance.

**Question:** The Pearson VUE test center administrator told me I couldn’t write on my note board until my exam started. I don’t understand.

**Answer:** It is in your best interest to follow the instructions of the test center administrator. Candidates may hurry to start writing notes on their note boards and not pay attention to the exam screen in front of them. A Non-Disclosure Agreement (NDA) appears after the tutorial and candidates have two minutes to respond to the NDA. Anxious candidates may start writing on their note boards and not pay attention to the computer screen prompts. If a candidate doesn’t respond to the NDA within the allotted two minutes, the exam shuts down and cannot be restarted. When this happens, the exam fee is forfeited, the candidate file is closed and the 90-day exam window ends. Play it safe and follow the screen prompts until the exam begins.
Question: I had to use the rest room and my exam time clock did not stop while I was gone. Was it supposed to?

Answer: Candidates are allowed to take breaks; however, the exam continues running. Exam appointments allow established times for the tutorial, the exam, and a satisfaction survey. Timed breaks are not built into the exam appointment. Limited Scope exam candidates are not provided scheduled breaks between each module – which means if you take a break after your Core module, the next module will start right away, even if you decide to take a break. It’s best to take care of personal business before your exam and to keep comfort breaks to a minimum.

Question: The power went out briefly during my exam and I was able to complete my exam from where it stopped. I think I should be able to complete the exam over at no cost. Can I?

Answer: On rare occasions, a candidate may experience a technical difficulty while completing the exam. Test center personnel are trained to correct any difficulty encountered as quickly as possible. Test centers are equipped with backup systems, so every reasonable effort will be made to retrieve testing data. In most cases, the test center personnel are able to restart the exam administration without loss of any responses already made. In instances where a restart is not successful, the test will be re-scheduled at no cost. If the test center is able to restart your exam and you are able to continue where you left off, your exam will be scored and will count as an attempt.

Question: The person next to me was typing loudly. I feel this affected the way I tested and do not feel my score is accurate. What are my options?

Answer: You should have alerted the test center supervisor immediately when you felt something or someone was affecting your test experience and asked the test center administrator to file a report before leaving the test center. You must also notify ARRT in writing within two days of your exam date. ARRT will investigate each issue reported and respond to your appeal in writing. If ARRT finds any deviation unfairly interfered with your ability to complete your exam to the best of your ability, the original score will be canceled and you will be allowed to retake the exam at no cost. Under no circumstances will a candidate’s score be adjusted.

Question: I was in the middle of the review portion of my exam and the exam ended. I don’t feel all of my responses were counted. How do I have my exam reviewed and rescored?

Answer: You may request a review of score accuracy if you feel an error has occurred. Send a letter of request to the ARRT within 30 days of your exam date – detailing the specific reason a scoring error is suspected. Requests must be accompanied by a $25 fee, payable to ARRT. ARRT will review your response to each question, compare those responses to the answer key, and recalculate raw scores. Passing scores are determined by your state.
**Question:** I took my exam three weeks ago but I haven’t received my results. Did they get lost?

**Answer:** ARRT processes candidate results every week and provides your scores to your state licensing agency. Your state licensing agency will then review the scores and determine whether you passed or failed; the ARRT does not make that determination. Some states mail a notice to the candidate; other states require the candidate to check online. Either way, please allow up to four weeks for your state to provide you with your score information. After four weeks you should contact your state licensing agency.
# ARRT Rules Agreement

Please review the following information and ask the Test Administrator if you have questions.

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>ARRT has a zero-tolerance policy regarding possession of cell phones and other electronic devices at the test center. If you are found to be in possession of, or otherwise have access to, one of these devices after initial check-in (including during scheduled or unscheduled breaks), you will not be allowed to resume your exam or assessment, you will forfeit your exam or assessment fee, your score will be canceled, and it will count as an attempt in your three-attempt, three-year time period. For SSA participants, you will be assigned the full prescription for your discipline. Should you bring an electronic device into the test center, you must turn off the device and store it in one of the test center’s lockers before you enter the testing room. Do not access your electronic device again until you have fully completed your exam or assessment.</td>
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<td>2.</td>
<td>Jewelry that is wider than 1/4 in (1 cm) is not permitted inside the testing room, and you will be asked to remove it.</td>
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<td>3.</td>
<td>Do not use the notebook provided by the Test Administrator until after you have responded to the Non-Disclosure Agreement. If you need a clean notebook during the exam or assessment, you should raise your hand to get the Test Administrator’s assistance. Return all items to the Test Administrator after completing your exam or assessment.</td>
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<tr>
<td>4.</td>
<td>Eating, drinking, smoking, chewing gum, and making noise that creates a disturbance for other candidates is prohibited during the exam or assessment.</td>
</tr>
<tr>
<td>5.</td>
<td>The Test Administrator will monitor you continuously while you complete your exam or assessment. The session may be videotaped or otherwise recorded for security or other purposes.</td>
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<td>6.</td>
<td>If you experience problems that affect your ability to complete your exam or assessment, notify the Test Administrator immediately by raising your hand. The Test Administrator cannot answer questions related to exam or assessment content and performance.</td>
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<td>7.</td>
<td>To request an unscheduled break, you must raise your hand to get the Test Administrator’s attention. The exam or assessment timer will not stop while you are on an unscheduled break. The Test Administrator will sign you out after you leave the testing room. Before returning to your seat, the Test Administrator will sign you in; after being signed in, you may resume your exam or assessment.</td>
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<tr>
<td>8.</td>
<td>You should not remove any items from your secure locker. If you must access a personal item, such as an item needed to take to the restroom, this is allowed after notifying the Test Administrator. However, if you access any other prohibited item from the secure locker (cell phone, books, notes, etc.), your score will be canceled, your testing fees will not be refunded, and it will count as an attempt in your three-attempt, three-year time period. Note: During scheduled breaks, RA and sonography candidates may access their locker in order to retrieve snacks. You may not leave the test center building during your scheduled break.</td>
</tr>
<tr>
<td>9.</td>
<td>You may not leave the building for any reason (unless directed to leave by the Test Administrator); this includes all breaks. If you leave the building, you will not be allowed to resume your exam or assessment, you will forfeit your exam or assessment fee, and your score will be canceled. The exam will count as an attempt in your three-attempt, three-year period. For SSA participants, you will be assigned the full prescription for your discipline.</td>
</tr>
<tr>
<td>10.</td>
<td>Do not remove copies of exam or assessment questions and answers from the testing room (including by writing on your person or clothing). Do not share exam or assessment questions and answers with anyone. Reproduction of exam or assessment questions and answers, in whole or part, constitutes a breach of your agreement, and you can/will be prosecuted in federal or state court. Depending upon your candidate or participant status, this will also result in score cancelation, future certification and registration ineligibility, and/or discontinuation of your certification and registration.</td>
</tr>
<tr>
<td>11.</td>
<td>After completing your exam or assessment, raise your hand. The Test Administrator will come to your workstation to ensure your exam or assessment has ended properly and will escort you from the testing room.</td>
</tr>
<tr>
<td>12.</td>
<td>If you do not follow the rules, are suspected of cheating or tampering with the computer, or demonstrate irregular behavior the issue will be reported to Pearson VUE, the ARRT, and your state licensing agency (if applicable). Your exam or assessment may be invalidated, the ARRT may take other action such as canceling your score, and you will not be refunded your exam or assessment fee.</td>
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**Candidate/Participant Statement:** By providing a digital signature, I give Pearson VUE my explicit consent to retain and transmit my personal data and test responses to the Pearson VUE corporate office and the ARRT (either of which may be outside of the country in which I am testing). I understand the information provided above and agree to abide by the ARRT Rules Agreement. In addition, I understand that if I am found to be in violation of any rule listed above, this will constitute grounds for the ARRT to take appropriate punitive action up to and including terminating my participation in the exam or assessment, invalidating the results of this exam or assessment and any prior exam or assessment, and permanently barring me from all future exams or assessments. In addition, I understand I may be subject to an ARRT ethics investigation or even a federal court lawsuit for copyright infringement and/or breach of contract. Any information collected by an ARRT investigation may be forwarded to my state licensing agency for review of state ethics violations.
BDEO Examination Handbook Checklist

When you receive your Candidate Status Report (CSR) from ARRT…and before scheduling your exam you will want to check…

• Does your name on your CSR match the name appearing on your two forms of required ID?
  – If your names do not match, do not schedule an appointment. Contact your state licensing agency to make the necessary changes and have them notify ARRT so we can mail you a new CSR with your updated info.
  – Once you verify the changes to your CSR are correct, go ahead and schedule your exam.

• Name or address change after you receive your information from ARRT?
  – All changes must be made via your state licensing office.

• Be sure to note the dates of your 90-day exam window.
  – You must schedule your exam for a time within the 90-day exam window printed on your CSR.

• If you can’t take your exam within your 90-day exam window, you are allowed up to 3 extensions – but they must be approved by your state licensing agency.
  – Cancel any existing appointment.
  – Contact your state licensing agency directly to request a window extension.
  – A new CSR will be mailed to you once ARRT has been notified and processed the request.

• Required IDs at the test center.
  – Make sure your IDs meet ARRT’s requirements listed in the handbook to prevent being turned away from the test center and losing your fee.
  – If you are unsure, cancel your appointment and reschedule when you are certain your IDs will be acceptable.

• Questions on exam results?
  – ARRT processes results each week and provides your score information to your state licensing agency.
  – Your state licensing agency determines your pass/fail status, not ARRT.
  – Please allow up to 45 days for your state licensing agency to notify you of your results.
  – Contact information for your state licensing agency is in the upper right-hand side on the front of your CSR.
Important Notice: State Licensing is Not ARRT Credentialing

The American Registry of Radiologic Technologists® does not certify and register individuals based upon the results of the Bone Densitometry Equipment Operator Examination. ARRT administers this examination program solely for use by state agencies. If you are interested in national certification and registration in bone densitometry or other disciplines, consult the www.arrt.org website or phone ARRT at (651) 687-0048.