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**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF PROFESSIONAL AND
OCCUPATIONAL REGULATION**

**LEAD ABATEMENT EXAMINATIONS
CANDIDATE INFORMATION BULLETIN**

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Please refer to our website to check for the most updated information at www.psiexams.com

EXAMINATIONS BY PSI SERVICES LLC

This Candidate Information Bulletin provides you with information about the examination and application process for becoming licensed as a Lead Inspector, Lead Supervisor, or Lead Risk Assessor in the Commonwealth of Virginia. To be licensed, you must pass an examination to confirm that you have attained at least a minimum level of knowledge regarding the principles, practices, statutes, and regulations. The Department of Professional and Occupational Regulation (Department) has contracted with PSI to conduct its examination program. PSI works closely with the Department and its Examination Review Committee to be certain that examinations meet local, national, and international requirements in basic principles and examination development standards.

EXAMINATION ELIGIBILITY REQUIREMENTS

Candidates will need to apply for eligibility with the Department before being allowed to take an examination. Each examination consists of two-portions: Virginia Law and Lead. If you fail one portion but pass the other you will only be required to retake the portion that you failed. You must pass both portions within three (3) years of Board approval and you will have three (3) attempts. If you fail the examination three times, whether one or both portions, you must submit a new application to the Board and meet all current requirements. Please note: a passing score on the Virginia Law portion is valid for 3 years. If you take another trade portion during the 3 year period, you do not need to retake the Virginia Law portion.

Candidates should go to the Department's web page to begin the process: www.dpor.virginia.gov/Boards/ALHI.

Commonwealth of Virginia
Department of Professional and
Occupational Regulation
Board for Asbestos, Lead, and Home Inspectors
9960 Mayland Drive, Suite 400
Richmond, VA 23233
(804) 367-8595
www.dpor.virginia.gov
or email: alhi@dpor.virginia.gov

EXAMINATION PAYMENT AND SCHEDULING PROCEDURES

Once you are approved by the Department, you will receive an email confirmation from PSI. It is your responsibility to contact PSI to pay and schedule for the examination. Examination fees can be found on the PSI registration form on page 13.

ON-LINE (WWW.PSIXAMS.COM)

For the fastest and most convenient examination scheduling process, PSI recommends that you register for your examinations using the Internet. You register online by accessing PSI's registration website at www.psiexams.com. Internet registration is available 24 hours a day.

- Log onto PSI's website and create an account. You will be asked to put in your email address and the spelling of your name exactly as it is shown on your identification that will be presented at the examination site.
- You will be asked to select the examination. You will then enter your personal and contact information. You will then be ready to pay and schedule for the examination. Enter your zip code and a list of the examination sites closest to you will appear. Once you select the desired examination site, available dates will appear.

TELEPHONE (800-733-9267)

For telephone registration, you will need a valid credit card (VISA, MasterCard, American Express or Discover). PSI registrars are available Monday through Friday between 7:30 am and 10:00 pm, and Saturday-Sunday between 9:00 am and 5:30 pm, Eastern Time.

FAX REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), including your credit card number and expiration date. Fax the completed form to PSI at (702) 932-2666. Fax registrations are accepted 24 hours a day. Please allow four (4) business days to process your Registration. After four (4) business days, you may go online or call PSI to schedule the examination.



EMAIL REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), including your credit card number and expiration date. Email the completed form to PSI at examschedule@psionline.com. Email registrations are accepted 24 hours a day.

Please allow four (4) business days to process your registration. After four (4) business days, you may go online or call PSI to schedule the examination.

STANDARD MAIL REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), and send the form with the appropriate examination fee to PSI. You may pay fees by credit card (VISA, MasterCard, American Express or Discover), company check, money order or cashier's check, made payable to PSI. Print your name in the memo section of the company check, money order or cashier's check so we can ensure the payment is applied to your registration. **CASH and PERSONAL CHECKS ARE NOT ACCEPTED.**

Please allow PSI two (2) weeks to process a mailed registration. After two (2) weeks, you may go online or call PSI to schedule the examination.

RESCHEDULING/CANCELING AN EXAMINATION APPOINTMENT

You may cancel and reschedule an examination appointment without forfeiting your fee if your *cancellation notice is received two (2) days before the scheduled examination date*. For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday. You may call PSI at (800) 733-9267.

Note: A voicemail or email message is not an acceptable form of cancellation. Please use the PSI website or call PSI to speak directly to a Customer Service Representative.

RETAKE A FAILED EXAMINATION

It is not possible to make a new examination appointment on the same day you have taken an examination due to processing and reporting results. Depending upon space availability, unsuccessful candidates may be able to retest within two business days. You may access a registration form at www.psiexams.com. You may also call PSI at (800) 733-9267.

MISSED APPOINTMENT OR LATE CANCELLATION

If you miss your appointment, you will not be able to take the examination as scheduled. You will also forfeit your examination fee, if you:

- Do not cancel your appointment two (2) days before the scheduled examination date;
- Do not appear for your examination appointment;
- Are not checked in by your scheduled start time;
- Do not present proper identification when you arrive for the examination.

EXAM ACCOMMODATIONS (ADA)

All PSI examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made as appropriate to meet a candidate's needs. A candidate with a disability or a candidate who would otherwise have difficulty taking the examination must follow the instructions on the Exam Accommodations Request Form at the end of this Candidate Information Bulletin.

EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your scheduled examination by calling (800) 733-9267. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check our website at www.psiexams.com.



EXAMINATION SITE LOCATIONS

Following are the examination centers where you may take the Virginia licensing examinations. Virginia candidates can only test at the examination centers listed below. They are not allowed to test out-of-state.

VIENNA AREA

1919 Gallows Rd, Suite 360
Vienna, VA 22182

From I-495 S - Take exit 47 A-B to merge onto VA-7 W/Leesburg Pike towards Tyson's Corner. Use the left lane to turn left onto Gallows Rd. Turn left at the first cross street onto Boone Blvd. The complex will be your right. The building where the test center is located is on the left side of the circle drive. Take the elevator to the third floor. The test center is in suite 360.

Surface and garage parking is available on site. The first hour is free. It is \$4 for 1-2 hours and \$6 for anything above that. Parking will be validated. Please give yourself extra time to park when arriving to take your exam.

RICHMOND

Moorefield VI Building
620 Moorefield Park Drive, Suite 205
Richmond, VA 23236

From I-64E, take the Parham Rd exit and turn right. N Parham Rd/VA-73 S becomes VA-150 S/Chippenham Pkwy. Merge onto VA-76 S/Powwhite Pkwy. Merge onto Midlothian Turnpike West. Turn left on Moorefield Park Dr.

VIRGINIA BEACH

484 Viking Dr, Suite 105
Virginia Beach, VA 23452

From I-264E - take exit 19A for Lynnhaven Pkwy S. Merge onto Lynnhaven Pkwy S. In about ½ mile turn right onto Viking Dr. The office is in the second building on the right.

From VA-615/Princess Anne Rd going north - turn left onto Seaboard Plaza. In about 2.5 miles turn left onto VA-149/Princess Anne Rd. In 1 mile, turn right onto VA-410/Holland Rd. In about 4 miles, turn right onto VA-414N/Lynnhaven Pkwy. In roughly 2.5 miles, turn left onto Viking Dr. The office is in the second building on the right.

Suite 105 is located on the first floor. For easiest access, park on the left side of the lot. If you enter on the south side entrance (this would be the entrance on the left side of the building when looking straight at the building at the building), the PSI test center will be the first door on your left once you walk in.

ROANOKE AREA

Fralin and Waldron Office Park
2847 Penn Forest Blvd
Building D, Suite 200
Roanoke, Virginia 24018

From 81 - take 220 Exit (Downtown Roanoke). From 220 take the Franklin Road Exit (not the Franklin Bus Exit). At the stop light make a right. Franklin Road will turn into Electric Road. Keep going straight until you come to Chaparral Dr and go left. You will see the Fralin & Waldron Bldg to your left. At the next stop light go left.

If you are traveling from 220 take the first exit, Franklin Road. Follow directions above.

EASTERN SHORE AREA

Beaglin Park Plaza
1323 Mt. Hermon Rd., Suite 2A
Salisbury, MD 21801

The complex is south of Route 50 and west of the 13 By-pass. From Route 50, turn south on Beaglin Park Drive. Turn left at the first light, Mt Hermon Rd. Turn left into Beaglin Park Plaza.

CHARLOTTESVILLE

2114 Angus Road, Suite #105-B
Charlottesville, VA 22901

*If going West on US-250, turn right onto US-29N/N Emmet St. Continue on Emmet Street and turn left on Angus Rd.
If going East on US-250, turn left onto US-29N/N Emmet St. Continue on Emmet Street and turn left on Angus Rd.*

Johnson City

904 Sunset Drive, Ste 7A
Johnson City, TN 37604

Take I-26 to Exit 19 (Old number 36). Go South on Highway 381 (North State of Franklin Road) approximately 2.2 miles. At the 4th light turn left (this is Sunset Drive), go approximately .7 tenths of a mile. There is a large building on the left side of the road. This is 904 Sunset Drive. Suite 7A is in the row of office spaces behind this building.



REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive at least 30 minutes before your appointment. This extra time is for sign-in, identification, and familiarizing you with the examination process. *If you arrive late, you may not be admitted to the examination site and you will forfeit your examination registration fee.*

REQUIRED IDENTIFICATION AT EXAMINATION SITE

You must provide 2 forms of VALID (not expired) identification. One must be a VALID form of government-issued identification (Driver's License, State ID, Passport, Military ID) which bears your signature and has your photograph. The second ID must have your signature and preprinted legal name. **All identification provided must match the legal name that you registered under to take the examination.** If the name in the PSI system does not match the name on your government-issued ID and second form of ID, you will not be permitted to take the examination and the examination fee will be forfeited.

SECURITY PROCEDURES

The following security procedures apply during examinations:

- You will be given a LCD writing tablet at check-in that must be returned at check-out. This is to be used for notes or calculations.
- You will have access to an online calculator. This is the only calculator you can use.
- All personal belongings of candidates should be placed in the secure storage provided at each site prior to entering the examination room. Personal belongings **include, but are not limited to**, the following items:
 - **Electronic devices of any type, including cellular / mobile phones, recording devices, electronic watches, cameras, pagers, laptop computers, tablet computers (e.g., iPads), music players (e.g., iPods), smart watches, radios, or electronic games.**
 - **Bulky or loose clothing or coats** that could be used to conceal recording devices or notes. For security purposes outerwear is not permitted in the testing room. Examples of outerwear include: open sweaters, cardigans, shawls, scarves, hoodies, vests, jackets and coats. **In the event you are asked to remove the outerwear, appropriate attire, such as a shirt or blouse, should be worn underneath.**
 - **Hats or headgear not worn for religious reasons** or as religious apparel, including hats, baseball caps, or visors.
 - **Other personal items**, including purses, notebooks, reference or reading material, briefcases, backpacks, wallets, pens, pencils, other writing devices, food, drinks, and good luck items.
- Although secure storage for personal items is provided at the examination site for your convenience, PSI is not responsible for any damage, loss, or theft of any personal belongings or prohibited items brought to, stored at, or left behind at the examination site. PSI assumes no duty of care with respect to such items and makes no representation that the secure storage provided will be effective in protecting such items. If you leave any items at the examination site after your examination and do not claim them within 30 days, they will be disposed of or donated, at PSI's sole discretion.
- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building's property. This applies to all guests, including drivers, children, friends, family, colleagues or instructors.
- No smoking, eating, or drinking is allowed in the examination center.
- During the checkin process, all candidates will be asked if they possess any prohibited items. Candidates may also be asked to empty their pockets and turn them out for the proctor to ensure they are empty. The proctor may also ask candidates to lift up the ends of their sleeves and the bottoms of their pant legs to ensure that notes or recording devices are not hidden there.
- Proctors will also carefully inspect eyeglass frames, tie tacks, or any other apparel that could be used to harbor a recording device. Proctors will ask to inspect any such items in candidates' pockets.
- If prohibited items are found during check-in, candidates shall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible for the security of any personal belongings or prohibited items.
- Any candidate possessing prohibited items in the examination room shall immediately have his or her test results invalidated, and PSI shall notify the Department of the occurrence.
- Any candidate seen giving or receiving assistance on an examination, found with unauthorized materials, or who violates any security regulations will be asked to surrender all examination materials and to leave the examination center. All such instances will be reported to the Department.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, and only after obtaining permission from the proctor. Candidate will not receive extra time to complete the examination.

TAKING THE EXAMINATION BY COMPUTER

The examination will be administered via computer. You will be using a mouse and computer keyboard.

IDENTIFICATION SCREEN

You will be directed to a semiprivate testing station to take the examination. When you are seated at the testing station, you will be prompted to confirm your name, identification number, and the examination for which you are registered.

TUTORIAL

Before you start your examination, an introductory tutorial to the computer and keyboard is provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time. Sample questions are included following the tutorial so that you may practice using the keys, answering questions, and reviewing your answers.

TEST QUESTION SCREEN

The “function bar” at the top of the test question screen provides mouse-click access to the features available while taking the examination.



The screenshot shows a web-based examination interface. At the top, there is a navigation bar with icons for Mark, Comments, Goto, Help, and End. Below this is a status bar displaying: Question: 3 of 40, Answered: 2, Unanswered: 1, Marked: 0, View: All, and Time Left(Min): 359. The main content area contains a question: "3. What do the stars on the United States of America's flag represent?". Below the question is a text input field. Underneath the input field, it says "(Choose from the following options)". There are four radio button options: "1. Presidents", "2. Colonies", "3. States", and "4. Wars". At the bottom of the question area, there are two buttons: "<< Back" and "Next >>".

One question appears on the screen at a time. During the examination, minutes remaining will be displayed at the top of the screen and updated as you record your answers.

IMPORTANT: After you have entered your responses, you will later be able to return to any question(s) and change your response, provided the examination time has not run out.

EXAMINATION REVIEW

PSI, in cooperation with the Department, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. While taking the examination, examinees will have the opportunity to provide comments on any questions, by using the comments key on the keyboard. These comments will be analyzed by PSI examination development staff. PSI does not respond to individuals regarding these comments, and all substantive comments are reviewed. **This is the only review of examination materials available to candidates.**

SCORE REPORTING

Your score will be given to you immediately following completion of the examination. In order to pass the examination, you must achieve a minimum score of 70%.

Your results will be given to you immediately following completion of the examination.

- If you **pass**, you will receive an examination result report which will indicate “PASS”.
- If you **do not pass**, you will receive a diagnostic report indicating your strengths and weaknesses.

DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing scorereport@psionline.com or by calling 800-733-9267.



TIPS FOR PREPARING FOR YOUR LICENSE EXAMINATION

The following suggestions will help you prepare for your examination.

- Planned preparation increases your likelihood of passing.
- Start with a current copy of this Candidate Information Bulletin and use the examination content outline as the basis of your study.
- Read study materials that cover all the topics in the content outline.
- Take notes on what you study. Putting information in writing helps you commit it to memory and is also an excellent business practice. Underline or highlight key ideas that will help with a later review.
- Discuss new terms or concepts as frequently as you can with colleagues. This will test your understanding and reinforce ideas.
- Your studies will be most effective if you study frequently, for periods of about 45 to 60 minutes. Concentration tends to wander when you study for longer periods of time.

DESCRIPTION OF EXAMINATIONS

Candidates taking the Risk Assessor, Inspector, or Supervisor examination must also pass the Virginia Law examination.

VIRGINIA LAW

| # of Questions | Minimum Passing Score | Time Allowed |
|----------------|-----------------------|--------------|
| 20 | 70% (14 correct) | 60 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|------------|
| Knowledge of Chapter 5 of Title 54.1 | 2 |
| Lead-Based Paint Activities Regulations (Virginia Lead-Based Paint Activities Regulation - 100%) | 18 |

EXAMINATION REFERENCE MATERIAL

The following is a list of possible reference materials for the examination. The list is given to identify resources and does not constitute an endorsement by PSI or the Department.

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices.

No loose papers or unbound references are permitted. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder or stapled in the left-hand corner.

References may be highlighted, underlined, and/or indexed prior to the exam. Reference materials containing any writing will not be allowed into the examination. You may not write in reference materials during the examination session. A candidate caught writing in the references during the examination will have the references confiscated and will be reported to the Department.

References may be tabbed with permanent tabs only. NO REMOVABLE TABS are allowed.

The following list of tabs may be used. These items may be purchased at local office supply stores.

Acceptable Tabs

- Avery Swift Tabs Self-Adhesive Permanent Plastic Tabs
- Redi-Tag Self-Stick Permanent Adhesive Index Tabs

Unacceptable Tabs

- Post-It Index Flags
- Post-It Flags

This examination is open book. You must bring your own references as they are not provided at the test site. No study guides are permitted.

Reference

- *Virginia Lead-Based Paint Activities Regulations.*



LEAD SUPERVISOR

Candidates taking the Lead Supervisor examination must also take the Virginia Law examination (see page 7).

| # of Questions | Minimum Passing Score | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 70% (35 correct) | 90 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|------------|
| Lead Toxicology (HUD Guidelines - 100%) | 5 |
| Worker and Environmental Protection (HUD Guidelines - 83%, EPA Code of Federal Regulations 40 CFR Part 745 - 17%) | 12 |
| Pre-Abatement Procedures (EPA Code of Federal Regulations 40 CFR Part 745 - 100%) | 3 |
| Abatement Procedures (HUD Guidelines - 90%, EPA Code of Federal Regulations 40 CFR Part 745 - 10%) | 10 |
| Testing and Monitoring for Lead Hazards (HUD Guidelines - 96%, EPA Code of Federal Regulations 40 CFR Part 745 - 4%) | 6 |
| Post-Abatement Procedures (HUD Guidelines - 100%) | 6 |
| Waste Disposal (HUD Guidelines - 100%) | 8 |

The above content outline has been expanded to include the following EPA study topics to assist candidates in preparing for the examination.

| | |
|--|---|
| <p><u>Certification of Project Scope of Work</u></p> <ul style="list-style-type: none"> ▪ Reviewing the scope of the work ▪ Contract specifications ▪ HUD guidelines applicable to lead-hazard control work ▪ Evaluation of lead inspection and risk assessment reports ▪ Recommended and restricted lead-hazard control methods ▪ Liability issues involved with abatement work Types of insurance applicable to abatement ▪ Roles of all participants in abatement project ▪ Record-keeping requirements for abatement projects ▪ Community relations plans ▪ Project budgeting <p><u>Initial Walkthrough</u></p> <ul style="list-style-type: none"> ▪ Locations where lead may exist in residential environments ▪ Basic building construction and architecture ▪ Reading blueprints ▪ Work area isolation and site security ▪ Site storage of equipment and waste materials ▪ Location of containment barriers and shower ▪ Collection of pre-abatement (baseline) soil and dust samples <p><u>Assemble Materials and Documents</u></p> <ul style="list-style-type: none"> ▪ OSHA Lead in Construction Standard ▪ Definition of OSHA “competent person” ▪ Worker licenses and certification ▪ Acceptable worker baseline blood-lead levels ▪ OSHA General Industry, Hazard Communication and Respiratory Protection standards ▪ OSHA Construction Standards ▪ Site-specific health and safety programs ▪ Requirements for worker training ▪ Selection, fit and care of respirators ▪ Worker health and safety needs (other than respirators) ▪ Equipment and supplies used in lead hazard control work ▪ Materials which may be used for enclosure and encapsulation | <p><u>Abatement Site Preparation</u></p> <ul style="list-style-type: none"> ▪ Crew orientation ▪ How workers prevent taking lead dust home ▪ Shutting down and sealing HVAC systems ▪ Set-up of shower, containment and critical barriers ▪ Required work area signs and waste labels ▪ Methods for control and abatement of dust, paint and soil <p><u>Lead Hazard Control Work</u></p> <ul style="list-style-type: none"> ▪ Potential health hazards from substances other than lead ▪ Health effects of lead on workers ▪ Proper use of personal protective clothing and equipment ▪ Material safety data sheets (MSDSs) ▪ Routine safety and health meetings ▪ Containment security and ventilation ▪ Air-sampling pump calibration ▪ Air sampling collection procedures ▪ Reviewing air-sampling results and calculating TWAs ▪ Frequency and limits of medical monitoring of workers ▪ Daily cleanup activities in abatement areas ▪ RCRA waste disposal regulations for abatement projects <p><u>Final Cleanup and Clearance</u></p> <ul style="list-style-type: none"> ▪ Definition of “clean” for final clearance ▪ Proper order and procedures for final cleanup ▪ Surface-sealing application techniques ▪ Third-party visual inspection and wipe sampling for clearance ▪ Elements of the abatement report <p><u>General Supervisory and Leadership Skills</u></p> <ul style="list-style-type: none"> ▪ Worker motivation ▪ Project management |
|--|---|

EXAMINATION REFERENCE MATERIAL

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The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge, or general industry practices. You can use any edition of references and Code books as they become available. However, for Code questions, the examination will be based only on the edition of the Code book that is listed.

References

Virginia Lead-Based Paint Activities Regulations, 18 VAC 15-30

http://www.dpor.virginia.gov/uploadedFiles/MainSite/Content/Boards/ALHI/A506-33REGS_LEAD.pdf

Code of Virginia, Title 54.1, Chapter 5

<https://law.justia.com/codes/virginia/2010/title-54-1/chapter-5/>

HUD Guidelines, 2012 Edition

http://portal.hud.gov/hudportal/HUD?src=/program_offices/healthy_homes/lbp/hudguidelines

OSHA Code of Federal Regulation 29 CFR Part 1910.1025

<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1025>

OSHA Code of Federal Regulation 29 CFR Part 1926.62

<https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.62>

EPA Code of Federal Regulation 40 CFR Part 745

<https://www.law.cornell.edu/cfr/text/40/part-745>

LEAD INSPECTOR

Candidates taking the Lead Inspector examination must also take the Virginia Law examination (see page 7).

| # of Questions | Minimum Passing Score | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 70% (35 correct) | 90 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--|------------|
| Lead Toxicology (HUD Guidelines - 60%, EPA Code of Federal Regulations 40 CFR Part 745 - 40%) | 5 |
| Inspection Protocol and Methods (HUD Guidelines - 83%, EPA Code of Federal Regulations 40 CFR Part 745 - 17%) From 12 to 18 questions | 18 |
| Sampling Methods (HUD Guidelines - 96%, EPA Code of Federal Regulations 40 CFR Part 745 - 4%) From 19 to 25 questions | 19 |
| Post-Abatement Clearance (HUD Guidelines - 100%) | 8 |

The above content outline has been expanded to include the following EPA study topics to assist candidates in preparing for the examination.

| | |
|--|---|
| <p><u>Initial Request for Inspection</u></p> <ul style="list-style-type: none"> ▪ Defining the scope of work ▪ Roles and responsibilities of an Inspector ▪ Difference between inspection and risk assessment ▪ Difference between XRF and paint chip sampling ▪ Importance of State and local requirements ▪ HUD and EPA notification and disclosure regulations ▪ Health effects of lead in adults and children ▪ Places where lead can be found inside and outside the home ▪ EPA recommended steps for reducing lead in drinking water ▪ Goals of HUD lead guidelines ▪ Information about property needed to provide proposal for inspection ▪ Information about property needed to determine number of units to inspect ▪ Basic building and construction technology ▪ General contract terms and requirements <p><u>Preparation for Inspection</u></p> <ul style="list-style-type: none"> ▪ Inspection scheduling ▪ Licensing and transportation of XRF ▪ How an XRF analyzer works ▪ Inspector and occupant safety issues with XRF use ▪ XRF calibration checks ▪ Equipment and forms needed for sampling ▪ OSHA regulations applicable to lead, safety and respiratory protection ▪ Respirators and other protective equipment ▪ Types of dosimeters <p><u>Pre-inspection Meeting</u></p> <ul style="list-style-type: none"> ▪ Background information about lead use ▪ Determine construction history ▪ Calculation of number of units to inspect using HUD tables ▪ Random selection of units using HUD protocols ▪ Reading blueprints | <p><u>The Inspection</u></p> <ul style="list-style-type: none"> ▪ Inventory of painted surfaces ▪ Sample locations in single family and multi-family dwellings ▪ Field document: sample location, sketches, HUD forms ▪ How to take XRF readings ▪ Performance characteristics sheets (PCS) ▪ XRF substrate corrections ▪ Interpretation of XRF readings ▪ Why POS, NEG and INCONCLUSIVE ranges vary among XRF analyzers ▪ Data collection from XRF ▪ Collection of paint chip samples (ppm and mg/cm²) ▪ Laboratory and chain of custody forms ▪ Sample labeling ▪ Methods for analysis of lead ▪ Interpretation of lab results ▪ Use of chemical spot-test kits ▪ Soil sampling methods ▪ Dust sampling methods <p><u>Inspection Report</u></p> <ul style="list-style-type: none"> ▪ How to summarize inspection results ▪ Contents of inspection report ▪ Recommendations an Inspector can make <p><u>Clearance Testing</u></p> <ul style="list-style-type: none"> ▪ The final visual inspection of hazard control activities ▪ Why pre-abatement wipe and soil samples are collected ▪ Why dust samples are collected for clearance ▪ The number and location of clearance wipe samples ▪ How to perform clearance wipe sampling ▪ Calculation of wipe sample results (µg/ft²) ▪ Wipe sampling clearance standards ▪ What happens when a wipe test fails ▪ The number and location of clearance soil samples ▪ How to perform clearance soil samples ▪ Compositing soil samples |
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EXAMINATION REFERENCE MATERIAL

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Code of Virginia, Title 54.1, Chapter 5

<https://law.justia.com/codes/virginia/2010/title-54-1/chapter-5/>

HUD Guidelines, 2012 Edition

http://portal.hud.gov/hudportal/HUD?src=/program_offices/healthy_homes/lbp/hudguidelines

OSHA Code of Federal Regulation 29 CFR Part 1910.1025

<https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1025>

OSHA Code of Federal Regulation 29 CFR Part 1926.62

<https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.62>

EPA Code of Federal Regulation 40 CFR Part 745

<https://www.law.cornell.edu/cfr/text/40/part-745>

LEAD RISK ASSESSOR

Candidates taking the Lead Risk Assessor examination must also take the Virginia Law examination (see page 7).

| # of Questions | Minimum Passing Score | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 70% (35 correct) | 90 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--|------------|
| Lead Toxicology (HUD Guidelines - 80%, EPA Code of Federal Regulations 40 CFR Part 745 - 20%) | 5 |
| Sampling Strategies (HUD Guidelines - 100%) | 8 |
| Clearance Sampling (HUD Guidelines - 100%) | 6 |
| Inspection Protocol and Methods (HUD Guidelines - 100%) | 16 |
| Sampling Methods (HUD Guidelines - 100%) | 5 |
| Designing Inspection Activities and Abatement/Management Procedures (HUD Guidelines - 82%, EPA Code of Federal Regulations 40 CFR Part 745 - 18%) | 10 |

The above content outline has been expanded to include the following EPA study topics to assist candidates in preparing for the examination.

| | |
|--|---|
| <p><u>Initial Request for Lead Services</u></p> <ul style="list-style-type: none"> ▪ Objectives of initial contact with client or owner ▪ Types of lead evaluation protocol(s) ▪ Difference between inspection and risk assessment ▪ Classification of EBLL child ▪ Use of EBLL questionnaire ▪ HUD and EPA notification and disclosure requirements ▪ Health effects of lead in children and adults ▪ Places where lead can be found ▪ 2012 HUD guidelines ▪ EPA Title X purpose and goals ▪ Importance of State and local regulations <p><u>Proposal to Perform Risk Assessment</u></p> <ul style="list-style-type: none"> ▪ General contract terms and requirements ▪ Liability issues as they relate to risk assessment ▪ Types of insurance relevant to risk assessment ▪ Information about property needed to provide proposal for risk assessment ▪ Information about property needed to determine number of samples/units ▪ Estimating costs for lead evaluation work <p><u>Preparation for Risk Assessment</u></p> <ul style="list-style-type: none"> ▪ Risk assessment scheduling and staffing ▪ OSHA regulations applicable to risk assessment ▪ Potential job site hazards and personal protective equipment <p><u>Walkthrough</u></p> <ul style="list-style-type: none"> ▪ Background information about lead use and sources ▪ Basic building construction and architecture ▪ Conditions when lead paint is considered a hazard ▪ Sources of lead other than paint ▪ HUD categories of paint condition and deterioration | <p><u>Conduct Sampling</u></p> <ul style="list-style-type: none"> ▪ Field documentation: testing location, sketches, HUD forms ▪ Selection of dust sampling location(s) ▪ Single surface sampling procedures ▪ Calculation of dust concentration in $\mu\text{g}/\text{ft}^2$ ▪ EPA/HUD guidance levels for lead in dust ▪ Spike and blank dust samples ▪ Selection of soil sample locations ▪ Soil sampling procedures/equipment ▪ EPA guidance levels for lead in soil ▪ Water sampling procedures ▪ EPA drinking water lead standards ▪ Selection of paint sample locations ▪ Use of XRF analyzer and safety issues ▪ Performance characteristics sheets (PCS) ▪ Paint chip sample collection procedures/equipment ▪ Laboratory methods and accreditation programs for lead ▪ Calculation of ppm and mg/cm^2 for lead in paint <p><u>Assessing Multi-Family (MF) Dwellings</u></p> <ul style="list-style-type: none"> ▪ Targeted, worst-case and random sampling of MF dwellings ▪ Elements of a management plan for MF dwellings ▪ Interpretation of sampling results from MF dwellings <p><u>Report Preparation</u></p> <ul style="list-style-type: none"> ▪ Parts of the HUD standard risk assessment report ▪ Hazard control action alternatives/costs ▪ RCRA regulations for hazardous waste disposal <p><u>Ongoing Monitoring</u></p> <ul style="list-style-type: none"> ▪ Elements involved in ongoing lead-hazard monitoring ▪ Schedules for reevaluation |
|--|---|

EXAMINATION REFERENCE MATERIAL

The following is a list of possible reference materials for the examination. The list is given to identify resources and does not constitute an endorsement by PSI or by the Department.

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge, or general industry practices. You can use any edition of references and Code books as they become available. However, for Code questions, the examination will be based only on the edition of the Code book that is listed.

References

Virginia Lead-Based Paint Activities Regulations, 18 VAC 15-30

http://www.dpor.virginia.gov/uploadedFiles/MainSite/Content/Boards/ALHI/A506-33REGS_LEAD.pdf

Code of Virginia, Title 54.1, Chapter 5

<https://law.justia.com/codes/virginia/2010/title-54-1/chapter-5/>

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EPA Code of Federal Regulation 40 CFR Part 745

<https://www.law.cornell.edu/cfr/text/40/part-745>



VIRGINIA LEAD ABATEMENT EXAMINATION REGISTRATION FORM

Be prepared with the following information before you begin the registration process. Read the Candidate Information Bulletin before filling out this registration form. You must provide all information requested and submit the appropriate fee. Registration forms that are incomplete or not accompanied by the proper fee will be returned unprocessed. Examination fees are **not** refundable or transferable.

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- Description of the disability and limitations related to testing
- Recommended accommodation/modification
- Name, title and telephone number of the medical authority or specialist
- Original signature of the medical authority or specialist

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