

Lead Safe Renovator

4 Hr Refresher Training

Instructor

Jamie Papian

Lead Inspector

Asbestos Building Inspector Certified Indoor Environmentalist



1

Lead Safe Renovator Refresher Training Course

Course Overview

Introduction

Module 1: Current Laws and Regulations.

Module 2: Getting Started, Set-Up, and Safe Work Practices.

Module 3: Clean-up Methods/Tools/Cleaning Verification.

Module 4: On the Job Training

Module 5: Record Keeping

Module 6: Certification in Iowa

Review and Test



2

Lead Safe Renovator Refresher Training Course: Introduction Symptoms of Childhood Lead Exposure

- Fatigue
- · Stomachache / cramps
- · Irritability, Headaches, Vomiting
- Constipation
- · Poor appetite
- · Behavior and learning problems
- · Attention deficit
- $\cdot \;\;$ Damage to brain, nervous system, and kidneys
- · Slowed growth
- Hearing problems
- Anemia

It is difficult to diagnose lead poisoning based on these symptoms.



3

Lead Safe Renovator Refresher Training Course: Introduction

Symptoms of Adult Lead Exposure

- · Numbness in hands and feet
- · Muscle and joint pain
- "Wrist drop"
- · Weakness in arms and legs
- · Loss of sex drive
- · Kidney problems
- · High blood pressure



It is difficult to diagnose lead poisoning based on these symptoms.



4

Lead Safe Renovator Refresher Training Course: Module 1 Target Housing

Housing constructed prior to 1978 with the exception of housing for the elderly, disabled, or any zero bedroom dwelling, unless a child under the age of six resides there

- Housing for the elderly and disabled must be designated as such by a specific federal housing assistance program. (A building is not housing for the elderly just because an elderly person lives there.)
- Also, Public/Commercial buildings built before 1978 that are being converted to residential buildings are considered target housing.



5

Lead Safe Renovator Refresher Training Course: Introduction Target Housing

A building or portion of a building constructed prior to 1978 that is visited on a regular basis by the same child less than 6 years of age on at least two different days within any week.

 This includes daycare homes, daycare centers, preschools, and kindergarten classrooms, as well as common areas in these buildings where children under the age of 6 years have access.



Lead Safe Renovator Refresher Training Course: Module 1 **Laws & Regulations**

Iowa Dept of Public Health (IDPH)

- Regulates the Property
 Chapter 70 Lead Professional Rules
- U.S. Occupational Safety and Health Administration (OSHA)
 - Regulates Worker Protection
 - Lead In Construction 29 CFR 1926.62



7

Lead Safe Renovator Refresher Training Course: Laws & Regulations Federal Real Estate Disclosure

In sales & rental of target housing, the seller/landlord must:

- Fill out a standard form indicating whether they have specific knowledge of lead-based paint or lead-based paint hazards in the dwelling and provide this form to the buyer.
- 2. Provide copies of any inspection reports to the buyer.
- 3. Provide a copy of the EPA or a state-approved pamphlet to the buyer.
- (Purchase only) Allow the buyer 10 days to get a lead inspection if the buyer wants an inspection.



8

Lead Safe Renovator Refresher Training Course: Laws & Regulations RRP / LSR Rule

- Effective on April 22, 2010.
- EPA may authorize states, territories and tribes to enforce this rule. Iowa is an authorized state.
- Addresses activities that disturb lead-based paint in target housing and child-occupied facilities.
- It requires:

Training providers must be approved.
Renovators and firms must be Certified/Licensed.
Lead-safe work practices must be used during renovations.



Lead Safe Renovator Refresher Training Course: Laws & Regulations

Definitions: Renovation

Iowa Administrative Code 641, Chapter 70.2(135) Definitions

"Renovation"

"Renovation" means the modification of any existing structure, or portion thereof, that results in the disturbance of painted surfaces, unless that activity is performed as part of lead abatement as defined by this chapter.

The term "renovation" includes, but is not limited to, the removal, modification, or repair of painted surfaces or painted components such as modification of painted doors, surface restoration, and window repair; surface preparation activity such as sanding, scraping, or other such activities that may generate paint dust; the partial or complete removal of building components such as walls, ceillings, and windows; weatherization projects such as cutting holes in painted surfaces to install blown-in insulation or to gain access to attics and planing thresholds to install weather-stripping; and interim controls that disturb painted surfaces. "Renovation" does not include minor repair and maintenance activities.



10

Lead Safe Renovator Refresher Training Course: Laws & Regulations RRP Rule Exclusions

- Renovation activities where affected components do not contain leadbased paint.
- Emergency renovations (requires still cleanup and cleaning verification or dust lead clearance).
- Minor repair and maintenance activities.
- Renovations performed by homeowners in homes that they own and where they or immediate relatives live.



11

Lead Safe Renovator Refresher Training Course: Laws & Regulations **Definitions: Minor Repair & Maintenance**

lowa Administrative Code 641, Chapter 70.2(135) Definitions

New Definition of "Minor Repair and Maintenance"
Implementation date of 1-16-2013

"Minor repair and maintenance activities" means activities, including minor heating, ventilation or air-conditioning work, electrical work, and plumbing, that disrupt less than the minimum areas of a painted surface established in this definition where none of the work practices prohibited or restricted by this chapter are used and where the work does not involve window replacement or demolition of painted surface areas. When painted components or portions of painted components are removed, the entire surface area removed is the amount of painted surface disturbed. Projects, other than emergency renovation, performed in the same room within the same 30 days must be considered the same project for the purpose of determining whether the project is a minor repair and maintenance activity. Renovations performed in response to an elevated blood lead (EBL) inspection are not considered minor repair and maintenance activities.

(definition continues on next slide)



Lead Safe Renovator Refresher Training Course: Laws & Regulations
Definitions: Minor Repair & Maintenance
Iowa Administrative Code 641, Chapter 70.2(135) Definitions
New Definition of "Minor Repair and Maintenance" continued Implementation date of 1-16-2013
The minimum area for minor repair and maintenance activities is:
1. Less than 1.0 square foot of an interior painted or finished wood surface per renovation;
2. Less than 6.0 square feet of a painted or finished drywall or plaster surface per room; or
3. Less than 20.0 square feet of an exterior painted or finished surface per renovation.
Projects performed pursuant to (HUD) 24 CFR Part 35 shall comply with the de minimis leve in 24 CFR 35.1350 if these de minimis levels are more restrictive than the minimum areas o painted surface established in this definition.



13

Lead Safe Renovator Refresher Training Course: Laws & Regulations Definitions: Emergency Renovation

"Emergency renovation" means renovation, remodeling, or repainting activities necessitated by:

Nonroutine failures of equipment or of a structure that were not planned but resulted from a sudden, unexpected event that if not immediately attended to:

Presents a <u>safety or public health hazard or</u> threatens equipment or property with <u>significant damage.</u>

"Emergency renovation" includes interim controls, renovation, remodeling, or repainting activities that are conducted in response to an elevated blood lead (EBL) inspection.



14

Lead Safe Renovator Refresher Training Course: Laws & Regulations RRP Rule: Firm Responsibilities

- Ensure overall compliance with the RRP Rule.
- Ensure that all renovation personnel are certified lead-safe renovators or have been trained on-the-job by a certified lead-safe renovator.
- Assign a certified lead-safe renovator to each job.
- Meet pre-renovation education requirements.
- Meet recordkeeping requirements.



Lead Safe Renovator Refresher Training Course: Laws & Regulations RRP Rule: Individual Certified Lead Safe Renovator Responsibilities

- Perform work and direct lead-safe work practices.
- · Provide on-the-job training to non-certified workers.
- Keep a copy of the initial and/or refresher training certificates onsite.
- Use EPA-recognized test kits to identify lead-based paint.
- The certified lead-safe renovator <u>MUST</u> be on site during all <u>preparation</u> work and clean up activities.
- At all other times during renovation, the certified lead-safe renovator must be available by telephone, pager, or answering service and be able to be onsite within 2 hours.
- Maintain the containment to keep dust and debris within the work area.
- Implement the cleaning verification procedure.
- · Prepare and maintain required records.



16

Lead Safe Renovator Refresher Training Course: Laws & Regulations HUD Lead Safe Housing Rule

Covers federally-owned or assisted target housing and federally-owned target housing being sold (ex., HUD foreclosure).



Certified lead-safe renovators should ask the owner to find out if the property receives federal assistance.

HUD's rule has evaluation and control requirements based on type of

Visual assessment or lead paint inspection.
Paint stabilization, interim controls, or abatement.
Ongoing evaluation and lead-based paint maintenance.



17

Lead Safe Renovator Refresher Training Course: Laws & Regulations lowa Administrative Code 641, Chapter 68 Control Of Lead Based Paint Hazards

Requires property owners to repair lead-based paint hazards in properties where lead-poisoned children live or have spent time.





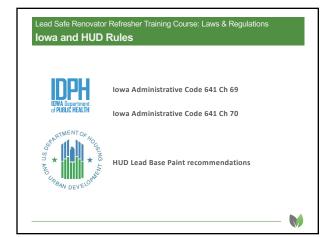
Lead Safe Renovator Refresher Training Course: Laws & Regulations

Pre-Renovation Notification

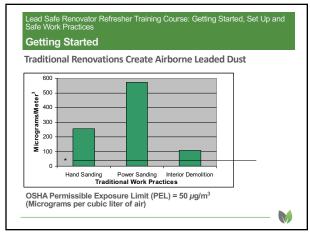
Notify owners and occupants no more than 60 days before starting work.

Keep all records for at least 3 years.

19



20



Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Lead Based Paint

You must assume that all surfaces are painted with lead-based paint,

OR

Prove that the paint that you are working on is NOT lead-based paint.



22

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Identifying Lead Based Paint Before Beginning Work

Type of Paint Testing for Renovations	Who can do the testing?
EPA-recognized test kits	Certified lead-safe renovators, certified lead abatement contractors, certified lead abatement worker.
X-Ray fluorescence analyzers (surface-by-surface)	Certified lead inspector/ risk assessors
Paint chip sampling and laboratory testing	Certified lead inspector/ risk assessors and recognized laboratories.



23

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

EPA Recognized Test Kits

- Recognized test kit changes color when lead is present. All paint layers must be tested when using test kits.
- If there is no color change on the paint film tested, lead-based paint is not present and lead-safe work practices are not required on that surface.
- You must fill out a test kit documentation every time you use a test kit.





Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Protect Yourself

Recommended Worker Protection

- · Disposable coveralls and shoe covers.
- Disposable N-100, R-100 or P-100 respirator.

Wash face and hands frequently and at the end of each shift.

No smoking, eating, or drinking in the work area.

OSHA may require more protection depending on what work is done.

- 1. Respiratory equipment.
- 2. Protective clothing.
- Other protective equipment (earplugs, eye goggles, face shields, etc.)





25

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Containment

"Containment" is a system of temporary barriers used to isolate a work area so that no dust or debris escapes while the renovation is being performed.

- · Containment is required.
- · Benefits of containment.
 - > Protects residents and workers.
 - > Prevents spread of dust to rest of house/building or neighboring properties.
 - \succ Easier cleaning at the end of the job.



26

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Exterior Containment

Establish The Work Area

Cover the ground with protective sheeting.

If space permits, extend a minimum of 10 feet from the work area.

Limit access, place signs.

Establish a 20 foot perimeter around the work area if space permits.

Close Windows and Doors

Close all doors and windows that are within 20 feet of the work area.



Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Interior Containment

Limit Access and Post Signs

* Notify residents to stay away from the work area.

* Ponot allow eating, drinking, or smoking in the work area.

* Do not allow eating, drinking, or smoking in the work area.

28

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Interior Containment

Remove or Cover Belongings

Remove belongings.

Cover immovable objects in protective sheeting, including:
Furniture
Carpet



29

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Interior Containment

Cover Floors

- Cover all work area floors with plastic sheeting.
- Cover floors a minimum of 6 feet in all directions around the paint being disturbed.



Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Interior Containment

Close Windows, Doors, HVAC

Depending on the amount of work that is to be done:

- · Close all windows in the work area.
- · Close all doors in the work area.
- Close and seal all HVAC vents in the work area.



31

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Interior Containment

Work Area Entry Doorway



 Cover work area entry doors with two layers of protective sheeting.



32

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

PROHIBITED Practices

Prohibited Paint Removal or Surface Preparation Practices

- Abrasive blasting without HEPA recovery.
- Uncontained water blasting.
- Heat guns > 1,100 degrees F
- Machine sanding / grinding without HEPA recovery
- Open flame burning
- Methylene chloride paint strippers in unventilated areas.
- Dry scraping, except around electrical outlets and fixtures.



Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Specialized Tools

Large jobs may require special considerations to get the job done, like:

- · Power sanders,
- · grinders and planers,
- needle guns, and
- abrasive and sand blasters, each with required HEPA-filtered capture attachments.





34

Lead Safe Renovator Refresher Training Course: Getting Started, Set Up and Safe Work Practices

Recommended Methods

Work Wet

- · Mist work area with water and keep it wet.
- Do this when scraping, sanding, sawing, planing, and praying painted surfaces and when removing them.



35

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools
Cleaning During the Job

A clean work site reduces the spread of dust and paint chips.

- · Clean as you work.
 - > HEPA vacuum horizontal surfaces.
 - \succ Remove debris frequently.
 - > Remove paint chips as they are created.
 - > As building components are removed, wrap and dispose of them immediately.



Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools Interior Cleaning Requirements

- Collect all paint chips and debris, and seal in heavy duty plastic bags.
- Mist, remove, fold (dirty side in) and tape or seal protective sheeting. Dispose of sheeting as waste.



37

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools

Interior Cleaning Requirements

- HEPA vacuum or wet wipe walls from high to low, then HEPA vacuum remaining surfaces and wipe with a damp cloth.
- Clean 2 feet beyond the contained work area.
- For carpet or rug, use HEPA vacuum with beater bar.
- HEPA vacuum and wet mop uncarpeted floors wet mopping system.





38

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools **Visual Inspection Procedure**

- Conducted by certified lead-safe renovator.
- Once you have carefully looked at all of the surfaces and found no dust or debris, proceed to the cleaning verification procedure or clearance.
- Verify:

Window Sills, Window Troughs, Counter Tops and Bare Non-Carpeted floors are clean



Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools Post Renovation Cleaning Verification (CV)

Post Renovation CV for Windows

- Certified lead-safe renovator MUST perform verification testing.
- Wipe each window sill and window trough within the work area.
- · Use a single wet disposable cleaning cloth per window sill.
- Use a single wet disposable cleaning cloth per window trough.
- Compare each cloth to the verification card.
- If the cloth is lighter than the verification card the area has been adequately cleaned.
- If it does not match or is darker than the verification card then reclean the area. Then recheck with either a new cloth or a new area of the same cloth and compare to the verification card.
- If it fails again, reclean and wait 1 hour or until surface is completely dry and repeat verification this time using a dry disposable cleaning cloth.
- This completes the cleaning verification.



40

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools

Post Renovation Cleaning Verification

Post Renovation CV for Floors and Countertops

- Wipe uncarpeted floors and all countertops with wet disposable cleaning cloths.
- Floors must be wiped using an application device with a long handle and a head to which the cloth is attached.
- Wipe up to a maximum of 40 ft² per cloth.
- Compare each wipe to the CV card.
- If the cloth matches or is lighter than the CV card, the surface has passed cleaning verification and no further action is required.
- If the cloth is darker than the CV card, re-clean and repeat the CV process.
- If the second wet cloth fails, wait 1 hour or until surfaces are dry, and then wipe with a new disposable cleaning cloth designed to be used for cleaning hard surfaces.
- This completes the cleaning verification.



41

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools Post Renovation EXTERIOR Cleaning Verification

- Certified lead-safe renovator MUST perform visual inspections.
- Certified lead-safe renovator <u>MUST</u> ensure there is no dust, debris, or residue on windowsills or the ground.
- When exterior passes visual exam it is considered adequately cleaned.



Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools Post Renovation EBL Cleaning Verification

REPAIRS DONE AFTER AN EBL INSPECTION

- There are some additional requirements when interim controls and repairs are done after an EBL inspection.
- These repairs temporarily reduce human exposure or likely exposure to lead-based paint hazards.
- All lead-based paint hazards must be repaired as specified in the EBL inspection report, and the work must pass dust clearance testing done by an EBL inspector/risk assessor.



43

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools

Interim Control Methods

- · Paint and substrate stabilization.
- · Dust removal (hard and soft surfaces).
- · Friction and impact surface treatment.
- · Accessible surface treatments.
- · Contaminated bare soil treatments.



44

Lead Safe Renovator Refresher Training Course: Clean Up Methods/Tools Clearance Testing

- Clearance testing <u>MUST be performed instead of post-renovation</u> cleaning verification on all HUD-assisted project.
- Clearance testing <u>MUST</u> be performed on all projects where there is a contract between the renovation firm and the contract holder that requires it.
- Clearance testing must be performed if the work was done in response to an EBL inspection.
- The dust samples for clearance testing MUST be collected by a certified sampling technician and or a certified lead inspector/risk assessor.
 - > The dust samples MUST be tested by an accredited laboratory.



Lead Safe Renovator Refresher Training Course: On The Job Training **Training Non-Certified Workers**

Certified Renovators are responsible for teaching lead-safe work practices to non-certified renovation workers.





46

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

- 1. Recognize lead based paint.
- 2. Set it up safely.
- 3. Protect yourself.
- 4. Control the spread of lead dust.
- 5. Work clean and safe.
- 6. Control the waste.
- Education regarding cleaning verification or clearance testing.



47

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 1: Recognize Lead Based Paint

- Renovation, repair or painting that disturbs lead-based paint can create significant lead-based paint hazards in homes.
- Just a little lead-based paint dust can poison kids, their parents and pets, and can cause problems for pregnant women and their unborn children.
- The certified lead-safe renovator will determine if lead-based paint is present on work surfaces.
- If information about lead-based paint is not available for a pre-1978 homes or a child-occupied facility, assume that lead-based paint is present and use lead-safe work practices.



Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 2: Recognize Lead Based Paint

- Containment is used to keep dust IN the work area and nonworkers OUT!
- · Signs and barriers are used to limit access.
- Inside versus outside jobs.
 - > Review all procedures and differences in setup.



49

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 3: Recognize Lead Based Paint

- Without the right personal protective equipment (PPE) workers can swallow and inhale lead from the job, and can carry lead on their skin and work clothes home to their families.
- · Advise workers to:
 - > Protect eyes.
 - > Keep clothes clean or use disposable clothing.
 - > Wear a respirator. The appropriate respirator keeps lead out of the lungs and stomach.
 - $\,\succ\,$ Wash-up each time they leave the work area and especially at the end of the day.



50

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 4: Recognize Lead Based Paint

- · The goal is to control the spread of dust that is created.
- · Use the right tools.
- Disposable plastic drop cloths control the spread of dust and debris.
- Avoid prohibited practices.



Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 5: Recognize Lead Based Paint

- The goal should be to leave the work area completely free of dust and debris.
- · Discuss daily cleaning procedures.
- · Discuss end of job cleaning procedures.



52

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 6: Recognize Lead Based Paint

- Discuss the waste bagging procedure.
- Demonstrate folding a small section of plastic with the dirty side turned in.
- Discuss temporary storage of waste.
- Discuss how to deal with waste water appropriately.
- Discuss waste disposal rules that apply to the specific job.



53

Lead Safe Renovator Refresher Training Course: On The Job Training Seven Steps of On The Job Training

Step 7: Recognize Lead Based Paint

- Cleaning verification will be performed by a Certified Renovator after most renovations.
- A clearance examination may be requested in place of cleaning verification by the owner, and in some cases with contracts.
- Discuss what happens when cleaning verification and/or clearance is not passed.



Lead Safe Renovator Refresher Training Course: On The Job Training **Training Documentation**

The Certified Renovator assigned to the job must maintain at the job site the following records for on-the-job training:

- · Written certification of worker training:
 - > Must show which workers have what training;
 - > Must be signed by the Certified Renovator who did the training.
- All training documentation must be kept for 3 years following completion of the renovation.



55

Lead Safe Renovator Refresher Training Course: Recordkeeping Recordkeeping Lead Safe Renovation Report 2 page report that MUST be completely filled out for each job A blank copy of this report is included with your training manual LEAD-SAFE RENOVATION REPORT Page 1/2 LEAD-SAFE RENOVATION EFFORT LEA

The Table Of the Table Of Tabl



56

Lead Safe Renovator Refresher Training Course: Certification Maintaining Your Certification

Firm Certification

- Valid for 3 years.
- To maintain, you must renew by going online and submitting renewal form to IDPH. There is no fee for firm certification.

Individual Certification/Licensing

- Valid for 3 years.
- To maintain, you must renew by going online and completing your renewal form and pay a licensing fee of \$180.00 to IDPH.

Refresher course is required within 3 years from the last day of your initial course.

https://dphregprograms.iowa.gov/PublicPortal/Iowa/IDPH/common/index.jsp





Lead Safe Renovator Refresher Training Course Enforcement Spot checks are done to confirm compliance. Penalties are assessed. Up to \$5000 for certification and pre-renovation notification (State of Iowa) Up to \$11,000 for real estate disclosure (EPA)



Lead Safe Renovator Refresher Training Course

Test Review

- Background of Lead
- Sources of exposure
- Health Effects
- Current Laws
- Methods to Identify Lead
- Set Up
- Safe work Practices
- Prohibited Practices
- Waste Disposal
- · On-the job Training Requirements
- What Records to Keep
- Certification Process



61

Lead Safe Renovator Refresher Training Course **How To Take The Test**

ACCESS TO THE TEST

- An email containing a link to the test and an access/test code has been sent to the email address we have on file for you.
- The access/test code provided to you in that email is unique to you. It can only be used once and will not work for multiple people or multiple login attempts.
- If you have any trouble accessing the test, please call our office immediately.
 515.331.1690



62

Lead Safe Renovator Refresher Training Course How To Take The Test

IMPORTANT!!!

Testing is conducted online under the same regulations as in a classroom. When class ends, you take the test and then you're done.

- You have 1 hour IMMEDIATELY after class to take your test.
 - You can't "wait until later" to start your test.
 You can't start your test and try to finish later.
 - As soon as class ends, the 1 hour timer starts.
 - When 1 hour is up the test closes automatically.
 - If you do not complete your test within the hour after class, you will not receive a training certificate and will not be able to renew your license.
- When you've completed your test, your score will display automatically. 80% or higher is the passing score.
- If you do not achieve 100%, your results will display the questions you answered incorrectly, and will show
 you the correct answer.
- After you receive your test results you are done. You can close out of the test.

