

Key Safety Practices

Applicability



- **Lead Abatement Workers/Supervisors**
- **Residents**
- **Lead Inspectors/Risk Assessors**

Safety for Lead Abatement Workers



- **Health monitoring**
 - **Employment medical exam**
 - ✦ Medical history, blood pressure, blood lead level & erythrocyte ptp, blood urea nitrogen, serum creatine and a urinalysis
 - **Periodic monitoring**
 - **Physician's medical report**



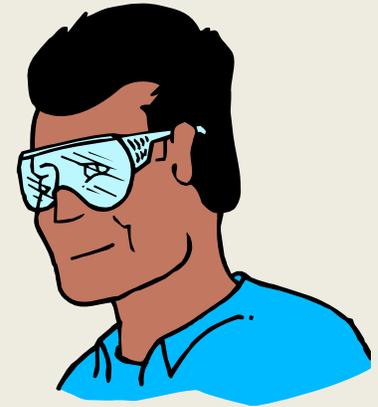
Safety for Lead Abatement Workers



- **Personal Protective Equipment (PPE)**
 - **Protective clothing**
 - ✦ coveralls (Tyvek)
 - ✦ shoe covers
 - ✦ gloves
 - ✦ hats
 - **Respirators**
 - ✦ NIOSH & MSHA approved
 - ✦ OSHA Lead Standard 29 CFR 1910.1025



Safety for Lead Abatement Workers



- **Personal Protective Equipment**
 - Eye protection
 - ✦ Face shield
 - ✦ Vented goggles
 - ✦ Safety glasses
 - The employer is responsible for all facets of health monitoring of employees, PPE and precautions!

Hygiene Facilities & Practices



- **Prohibited in abatement area:**
 - Food
 - Drink
 - Smoking
 - Cosmetics
- **6 mil poly must cover walls and floor**
- **An “Exit Changing Area” must be provided (to remove contaminated clothing)**
- **Hands and face must be washed prior to eating, drinking, smoking or applying cosmetics**

Non-Workers and Abatement Areas



- **Residents**
 - Can't occupy rooms or work areas where abatement is occurring
 - Work areas must be sealed from remainder of dwelling with 6mil poly
- **Work Area**
 - No person is permitted to enter abatement work areas except for:
 - ✦ Trained contractors and workers, code enforcement officials, lead inspectors, and property owners (all must wear appropriate PPE)
- **Common area abatement**
 - Alternative entrances and exits should be used if present
 - HEPA vacuuming and cleaning done daily if the only exit is through the abatement area
 - Building/fire code requirements for access must be maintained

Safety Concerns for Lead Inspectors/Risk Assessors



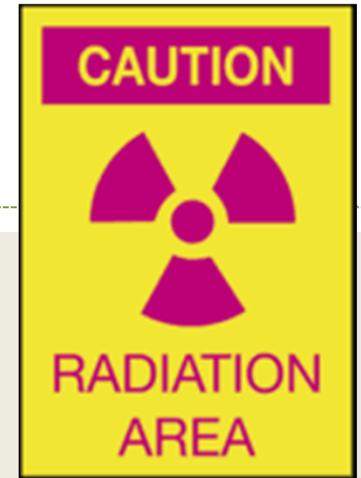
- Activities and conditions that may impact an inspector's health and safety
 - **Initial lead inspection**
 - ✦ Take initial dust wipes - lead dust, paint chips, condition of dwelling
 - ✦ Take readings on painted surfaces - X-ray fluorescent instrument (XRF) operation and use
 - **Abatement oversight**
 - ✦ Check active abatement site – lead dust, debris
 - **Clearance and re-inspection**
 - ✦ Conduct clearance sampling - lead dust
 - ✦ Take readings on abated surfaces-XRF operation and use

Safety Concerns for Lead Inspectors/Risk Assessors



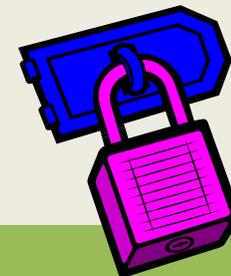
- Lead inspectors/risk assessors must comply with the same requirements as lead abatement workers if they are present at an active abatement area for oversight or other activities.
- Lead inspectors/risk assessors must comply with the manufacturer's, NRC, and DEP requirements governing the field operation and use of an XRF while testing painted surfaces as part of an initial comprehensive lead inspection or a lead re-inspection.

XRF Safety/Security



- **Safety/Security**

- Minimize exposure by distance & shielding
- Don't point instrument at anyone
- Do not allow anyone on either side or in front of instrument while in operation (radiation emits sideways too)
- Keep residents away from the instrument while in operation
- The Gamma rays will travel approximately one foot beyond a measured surface
- Store in locked and labeled cabinet to prevent unauthorized use or accidental exposure to radiation



XRF Safety/Security



- **Secure during transport to prevent damage to unit**
- **Close shutter lock when not in use**
- **Call DPH if Geiger counter readings are high**
- **DO NOT LET ANY UNTRAINED PERSONNEL HANDLE THE XRF**

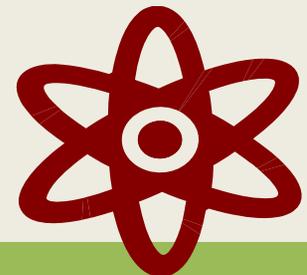


- **Do not leave unit or case unattended! Immediately Report theft to the police and DPH!**

Safety Compliance



- DPH registers the XRF's annually with the CT DEP.
- The Federal Nuclear Regulatory Commission has some regulatory jurisdiction.
- Personal dosimetry analysis must be done on a quarterly basis and each health department is responsible for providing their own dosimeters and testing (See XRF manual for a list of companies that do sales and analysis).
- Field measurements – XRF's must be checked before and after use with a Geiger counter.
- Source replacement must be done every 15-18 months.
 - Source is Cobalt 57



Contact Information



- **DPH**

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