

USEPA'S RENOVATION, REPAIR AND PAINTING RULE

**Compliance is Not as
Difficult as You May
Think**



PRESENTED BY:

Scott Alquist, CEI, CPP

Program Manager

Truckee Meadows Community College Safety Center

Reno, Nevada

USEPA Accredited Training Provider for

Renovation, Repair and Painting &

Lead Dust Sampling Technician Courses

Truckee Meadows Community College Safety Center

- ▣ A little bit about myself and our operation:
 - 28 year safety professional
 - EPA accredited RR&P and LDST instructor
 - OSHA-authorized construction trainer
 - DHS - HSEEP certified designer/planner
 - Background in adult learning
 - 23 year hazardous materials technician level responder and trainer
 - Certified Environmental Inspector - Phase 1 and 2
 - Certified Program Planner from LERN

Truckee Meadows Community College Safety Center

- ▣ The Safety Center was created in 1987 as an outreach arm of the college
- ▣ Focusing on providing creative and innovative solutions to today's business and government agencies
- ▣ OSHA, EPA, DOT and DHS requirements
- ▣ Small public offering of classes – majority of our work is customized to meet the specific needs of the client

Truckee Meadows Community College Safety Center

- ▣ Safety Center has provided training to over 65,000 employees in numerous languages
- ▣ Staff of over 25 professional consultants and trainers – PhD's to boots on the ground
- ▣ We are 24/7 - 365
- ▣ Nationally-accredited for RR&P and LDST, accreditations in Utah and Oregon as well
 - Have trained approx. 1000 RR&P workers
- ▣ OSHA authorized instructors for general industry and construction

Truckee Meadows Community College Safety Center

- ▣ Services include:
 - Program creation
 - Employee training
 - Disaster planning
 - Industrial accident investigation
 - Expert witness
 - Safety audits
 - Chemical audits
 - EPA and State-specific reporting

Truckee Meadows Community College Safety Center

- ▣ Lead coordinating efforts for Reno/Tahoe Triennial Full-Scale Disaster Exercise for past 15 years
- ▣ Coordinated radiological response training and equipment needs for nuclear waste shipments through Northern Nevada
- ▣ Created the first mass casualty training for the Reno National Championship Air Races
- ▣ Provided submitter and responder training for haz-mat permitting on-line database project

Truckee Meadows Community College Safety Center

- ▣ Current projects include:
 - Providing training for area hospitals specific to a hazardous materials incident
 - Providing construction-specific training for inmates up for release at the Lovelock Correctional Facility
 - Providing 3 nuclear waste-specific training exercises for area first responders and medical facilities
 - Training for Anaconda Mine Site remediation project workers and companies

Truckee Meadows Community College Safety Center

- ▣ Partnerships with NV Chapter Associated General Contractors, Region IX EPA, US Dept. of Energy, WIPP, Washoe County Sheriff's Office, NV State Fire Marshall's Office, Washoe LEPC, NV SERC, NV Dept. of Corrections, CYGNUS Expos, and many other State and Federal agencies

Truckee Meadows Community College Safety Center

- ▣ RR&P success stories
 - We were the 11th accredited training facility in the nation
 - To date have trained almost 1000 RR&P contractors
 - Have provided RR&P training in, Minnesota, Nevada, California and Utah
 - Launched our first LDST class this month
 - Have adapted the curriculum to meet the needs of the participants
 - Have added other jurisdictional requirements
 - ▣ OSHA, Cal-OSHA

Truckee Meadows Community College Safety Center

- ▣ Have accreditation to provide RR&P in Spanish
- ▣ But...have found some issues:
 - Some foreign-language issues
 - Functioning illiterates
 - Slow learners
 - Special needs population – ADA
- ▣ Boils down to one simple concept
 - If the student hasn't learned, the instructor hasn't taught – identify, adapt and overcome!

Building Workforce Capacity to Perform Lead Safe Work Practices

Presented by:

Nancy Clark, MA, CIH, CSP

Assistant Commissioner

Bureau of Environmental Disease Prevention

NYC Department of Health and Mental Hygiene



Lead Poisoning – Still a Problem in NYC

- ❑ Dust from lead paint is the major cause
- ❑ Lead paint was banned for residential use in 1960
 - 67% of NYC's housing units were built before 1960
- ❑ Dramatic decline in cases over the last 30 years
 - However, more than 1,500 children (0 – 18yrs) had blood lead levels $\geq 10\mu\text{g}/\text{dL}$ in 2010
 - Blood lead levels previously thought to be safe are associated with learning and behavioral problems

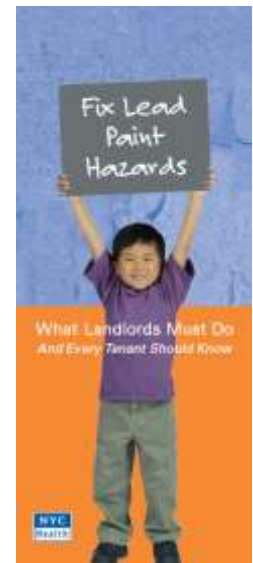
NYC Primary Prevention Law

Local Law 1

- ❑ Requires owners of pre-1960 multiple dwellings to identify and fix lead paint hazards in homes of children less than 6 years of age
- ❑ Owners must use trained workers who must follow lead-safe work practices
- ❑ LPPP responds to complaints about unsafe renovation work in buildings with children

Buildings covered by Local Law 1

- ❑ Buildings built before 1960 with:
 - 3 or more apartments
 - Where a child 6 years of age or younger lives
 - Buildings built between 1960 & 1978,
 - meeting above criteria,
 - if the landlord knows there is lead paint
- ❑ On turnover, 1- & 2-family homes
- ❑ Daycares



Work covered by Local Law 1

- ❑ Repair and renovation work > 2 square feet
- ❑ For example,

- Window replacement
- Plumbing
- Electrical
- Repainting



- ❑ Work ordered by NYC Department of Housing Preservation and Development (HPD)
- ❑ Turnover

Local Law 1

- ❑ **Training is required for all workers**
- ❑ Safe work practices
 - Containment to prevent dust and debris from leaving work area
 - Prohibition of certain work practices
 - Daily and Final clean-up
- ❑ Clearance dust wipes

LPPP and Lead Safe Work Practices

- ❑ Enforces LSWP in ordered abatement and remediation
- ❑ Investigates complaints of work creating potential lead hazards in buildings
 - Received 183 complaints of unsafe work practice in 2009
 - Conducted 534 inspections to monitor compliance on these complaints
- ❑ Offers free LSWP training

Free LSWP Training

- ❑ Supported by a grant from NYS DOH
- ❑ Uses EPA/HUD curriculum
 - ❑ RRP 4 hour refresher offered to graduates who scored $\geq 80\%$, & contractors doing housing maintenance code work
- ❑ Conducted on weekends in English & in Spanish
- ❑ Held at community sites in high risk neighborhoods
- ❑ Targeted contractors, construction workers, painters, custodians, building superintendents, handymen, and do-it-yourselfers

Recruitment

Multifaceted Outreach Methods

- ❑ Street distribution of flyers, posting flyers in stores, train stations, bus shelters, and libraries
- ❑ Advertising the classes at health fairs, owners nights and other outreach events
- ❑ Word of mouth referral by class participants

Recruitment

Working with Partners

- Mailing/e-mailing/posting/website notice
 - Other NYC agencies
 - Home improvement contractors
 - Commercial day care centers
 - Building owners' associations and organizations which do weatherization
 - CBOs with construction day laborer clients and homeowners associations

Recruitment

NYC Lead Registry ‘LeadQuest’

- Mailing flyer & invitation to owner and/or staff
 - 1-2 family homes with history of lead paint violations
 - Apartment buildings with history of lead paint violations
 - Buildings where newborn families refused a referral for XRF testing of peeling paint

Results

Total # of Classes	Total # Attended	Total # Passed	%Passed	# of English classes	# of Spanish classes
LSWP 55	1447	1272	87.9	39	16
RRP 4 hour refresher 11	225	223	99.2	11	0

Challenges

Range of literacy among participants

- ❑ Modified exam text to 5th grade level
- ❑ Offered oral exams where appropriate
- ❑ Used illustrations, demonstrations, and role play during instruction

Request for class in other languages

- ❑ Bengali, Cantonese, Mandarin, and Arabic
- ❑ Allowed participants to bring a family member to translate

Multiple locations posed logistical difficulties

Lessons learned

- ❑ Leveraging works
- ❑ Existing data sources (lead registry) can identify owners and building maintenance staff in need of training
- ❑ Expect a range of literacy among participants
- ❑ Partnership and communication with CBOs and other agencies have been key to our success

An Efficacy Assessment (Short- and Long-Term) of Lead Safe Renovation and Visual Assessment Training

Judy L. Jarrell, MA, EdD

William G. Menrath, MS



PURPOSE

- Proposed Technical Study Plan – Study #1:
The use of interactive training formats in lead training for increased learning transfer.
- Proposed Technical Study Plan – Study #2:
A comparison of the HUD on-line visual assessment for lead paint hazards training courses with other selected training classes/formats for learning transfer.

- Proposed Webinar Development and Delivery
– Project #3: Development and presentations (3-4) of a 4-hour train-the-trainer webinar with associated phone question and answer sessions at the conclusion of the webcast.

Overall Design – Study #1

- Survey/questionnaires to previously-trained lead renovators ~ 1,200 in Ohio
- Monetary incentive (\$2.00)
- Respondent:
 - Demographics
 - Effectiveness of training received
 - Knowledge retention
 - Confidence level

Study #2

Review and revise the on-line HUD course module on Visual Assessments for updated content and effective learning techniques for on-line training modules.

Project #3

- Work with HUD, U.S.EPA, and NCHH to develop a 4-hour webinar for RRP approved trainers.
 - Develop learning objectives
 - Develop “story board” for presentation
- Provide 3-4 iterations of the webinar

Preliminary Results – Study #1

- Participants:
 - Retrospective responses for pre-RRP Rule trainees.
 - Responses by persons who took grant-funded courses.
 - Retrospective responses for respondents who took grant-funded course.
 - In-person course participants from other approved training providers.
 - Total as of end of June, 2011: 701
 - Data still being gathered and analyzed.

Preliminary Results – Study #1

- [Knowledge retention question #8b regarding cleanup](#), shows a significant difference in number of correct responses between the participants of the in-person U.C. course and the in-person non-U.C. courses (92.9% - 84.1%). **NOTE:** the same curriculum used by these two groups with the exception of an expanded module #8 (training techniques) in the U.C. course.
- [Knowledge retention question #9b regarding decontamination](#), shows a significant difference in number of correct responses between the participants of the in-person U.C. course and the in-person non-U.C. courses, as well as the pre-RRP course participants (63.2% - 47.7% - 48.1%, respectively).
- [Cross analyses with education level and frequency of renovation work](#), will be completed to determine if amount of education and/or frequency of work made a difference in retention/confidence.



Preliminary Results – Study #2

This part of the project has been delayed until Summer, 2011.

Judy L. Jarrell, MA, EdD
Willaim G. Menrath, MS

Preliminary Results - Project #3

- Worked with HUD, U.S.EPA, and NCHH on the development of a 4-hour webinar for RRP approved trainers.
- Four iterations were given in Fall, 2009.
- A copy (read-only) was added to the HUD website:

<http://www.hud.gov/offices/lead/training/rrp/rrp.cfm>

- Over 200 training providers participated.

QUESTIONS?



Judy L. Jarrell, MA, EdD
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Lead-Safe Weatherization

Jamie Marshall, Training Coordinator, COAD

GH Runevitch, Lead Programs Manager,
COAD



History of Lead-Safe Weatherization

- Low Income Home Energy Assistance Program (LIHEAP) – IM-2001-15, February 2, 2001
- Advised grantees “of ways to coordinate and safely carry out weatherization activities in homes with lead paint hazards”

History of Lead-Safe Weatherization

- Weatherization Program Notice 02-06
- Effective date July 12, 2002
- Provided guidelines concerning Lead-Safe Weatherization (LSW)
- Some requirements different than HUD's Lead Paint Rule
- Recommended all States to include protocol to determine when LSW would be performed

History of Lead-Safe Weatherization

- April 2010 – Weatherization providers required to perform lead-safe weatherization on all pre-1978 homes
- RRP is considered as an acceptable component of weatherization
- Many providers choose to enhance training with additional “hands-on” components

Lead-Safe Weatherization Today

- Ohio's weatherization program includes the EPA RRP training for all weatherization workers
- Also provides enhanced "hands-on" training either on site or inside the training center labs
- Grantees are monitored for compliance

Lead-Safe Weatherization in Ohio



Lead-Safe Weatherization in Ohio





Lead-Safe Weatherization in Ohio

Since the onset of Lead-Safe Weatherization training in Ohio, the Ohio Weatherization Training Center has trained in excess of 4800 individuals in RRP and Lead-Safe Weatherization practices.

Thank You!

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