



CHAPTER 9

SOIL ABATEMENT AND EXTERIOR DUST CLEANUP

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Manual**



Learning objectives

In this chapter you will learn

- why lead in soil and exterior dust is a health hazard;
- what levels of lead in residential bare soil are considered hazards;
- how lead exposure from soil and exterior dust can be controlled.

Instructor's notes

This chapter follows the appropriate work rules you went over in Chapter 6—Setup. The challenge of this chapter is to make it as realistic and practical as possible and, at the same time, integrate work controls and safe work practices. It should be emphasized that with exterior lead work, the containment setup may be dramatically different than when doing interior lead work, but the same concerns regarding worker exposure, tracking, and spreading the contamination apply.

This section should be taught by someone who has practical experience—an individual who has done the work and has seen the results of choices made or methods used. If you yourself do not have this experience, you may still be able to teach this section with backup assistance from someone who does.

On the next page is a menu of options for teaching this section. It is suggested that you allow 30 minutes to teach this chapter.

Training methods

- | | |
|---------------------|------------|
| A. Lecture/Slides | 15 minutes |
| B. Class discussion | 15 minutes |

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**Lecture/Slides****(15 minutes)**

Purpose: To provide information on the different soil and exterior abatement methods and to identify EPA's definition of soil-lead hazards and the control options to address them.

Materials: Slide projector, slides

Directions: Make sure you involve the class in the slide presentation. Ask questions of the class to keep them involved.

Try not to read from the supplied notes about each slide. Using your own words will make it more interesting for the class. You can add any personal experience that you may have that is relevant. Notes are supplied for slides that are a part of this training kit. The notes include a copy or description of each slide.

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Class discussion

(15 minutes)

Purpose: To discuss the different issues related to soil abatement and exterior dust cleanup as compared to lead-based paint abatement.

Materials: Flip chart and markers

Directions: Ask the class the following open-ended questions and write down their answers on the flip chart.

1. **What are some differences between soil abatement and exterior dust cleanup as compared to paint abatement?**

The source of the lead contamination may not be lead-based paint, so some of the abatement issues addressed in the abatement chapter may not apply. Less containment used (poly or erosion control fences, but no airlocks or critical barriers generally used), so harder to control emissions. Tracking of dirt/dust more of a problem. More visible to public.

2. **What additional environmental or safety and health concerns would you have during a soil abatement/exterior dust cleanup project?**

Wind; rain; underground cables; power lines (above and below ground); urban wildlife (stray dogs, cats, rats); landscaping (bushes, trees).

3. **How do you determine if the soil abatement/exterior dust cleanup was conducted properly?**

Sample replacement soil (if applicable) before using; visible examination for paint chips; wipe exterior hard surfaces (e.g., driveway, sidewalk, porch stoop, steps); sampling of pathways used by crews when loading or unloading vehicles or equipment; integrity of permanent covering (e.g., asphalt or concrete); active onsite supervision during project.

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For more information

These publications have more information on the topics covered in this chapter. You should have a copy of the publications marked with a star (*). You can order your own copies by calling 1-800-424-LEAD.

*EPA, *Lead: Identification of Dangerous Levels of Lead; Final Rule*; 40 CFR Part 745 (Jan 2001).

*EPA, *Regulatory Status of Waste Generated by Contractors and Residents from Lead-Based Paint Activities Conducted in Households*, Interpretive Memorandum (July 2000).

*EPA, *Lead: Requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities*; 40 CFR Part 745 (August 1996).

*HUD, *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (June 1995).

*OSHA, *Interim Final Lead in Construction Standard*, 29 CFR 1926.62 (May 1993).