



COURSE OVERVIEW

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Course purpose

This course is designed to train workers to abate lead-based paint hazards safely. Your employer and job supervisor have provided this training for you for a number of reasons:

- to comply with EPA or state/Indian tribe training, accreditation, and licensing requirements;
- to provide you with the knowledge to do your job properly and safely;
- to train you in the laws and practices that apply to lead-based paint hazard control projects.

This course is designed to meet the requirements of 40 CFR Part 745—Lead; Requirements for Lead-based Paint Activities in Target Housing and Child-Occupied Facilities, a federal regulation under section 402 of the Toxic Substances Control Act (TSCA). It also meets the training requirements of HUD’s Lead-Safe Housing rule (24 CFR Part 35, et al.) for renovation, maintenance, and remodeling workers who disturb lead.

This course is not designed to meet the training requirements established under OSHA’s Interim Final: Lead in Construction standard (29 CFR 1926.62).

Differences in training requirements

EPA or your state/Indian tribe requires the use of trained and certified lead-based paint abatement workers when conducting abatement activities in housing or buildings where children spend a lot of time (the specific requirements will be explained during the regulations discussion of this course). OSHA requires annual training for all workers who are exposed to lead at or above the action limit established in the OSHA lead in construction standard. The state/Indian tribe in which you work may also have requirements in addition to those required by the federal programs. *Your employer is required to ensure that the training you have been provided meets those requirements.*

Your employer is responsible for getting you the proper training.



Lead can poison you and make you sick. Lead can poison children very quickly.

Work safely—protect yourself and others!

The more you know about lead, the better you can protect yourself and the more you can prevent lead poisoning.

Course introduction

Lead can be found in our air, water, soil, food, and many of our homes. Lead-based paint is a major source of exposure. In the United States, there are millions of structures that are painted with lead-based paint. The Centers for Disease Control and Prevention (CDC) estimate that over 400,000 children have lead in their blood above its level of concern.

Lead-based paint abatement is work that eliminates the lead hazards. EPA has defined what constitutes lead-paint, lead-dust, and lead-soil hazards. The work you will be doing in lead-based paint abatement is very important. If you work safely with lead, you can prevent lead poisoning.

However, if you do not work safely with lead, you can damage your health and your family's health. You can poison the environment. Children who move back into the homes you work on can become poisoned.

There are ways to protect yourself and to work with lead more safely. This is the reason you are here for this course. In this class you will learn:

1. What lead is and where you will find it.
2. How lead affects your health.
3. What laws and regulations are in effect that cover lead work.
4. How to work with lead dust safely.
5. Why good cleanup is important and how to do it.

When you follow the rules for working with lead, you lower your risk of getting poisoned. You protect your family and neighbors from lead poisoning. You protect the environment. When you work safely with lead, you help the national effort to end lead poisoning.



How to use this manual

This manual is yours to keep. Use a highlighter during the class and put notes on the sides of the pages to help you remember important information. This will help you when you study for the test at the end of the class. After the class is over, you can use this manual for information about your rights and responsibilities as a worker, the rights and responsibilities of your employer, and the legal requirements for safe work.

This manual is the 2001 version of the original EPA-model Lead Abatement Worker course manual that was originally published in May 1994 and revised in 1998. This manual has been updated to

- include changes to the Department of Housing and Urban Development's (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*,
- incorporate EPA's definitions of paint-lead, soil-lead, and dust-lead hazards;
- address HUD's Lead-Safe Housing Rule which includes training requirements for maintenance, renovation and rehab workers; and
- include the work practice and clearance standards established by EPA.

The lead detection and control industry is still rapidly changing. There are key facts about working with lead that may be revised in the future. To keep up-to-date with information established after December 2001, do the following:

- Go to refresher training classes.
- Keep in contact with your training provider and others in the field.
- Talk with your local, state, and federal officials at least every 6 months.
- Read trade magazines.
- Use the resources listed in this manual.

Regulations or guidelines?

When you see these words in the manual, they indicate something that the laws and regulations say you **must** do: "have to," "must," "required," "shall."

When you see these words in the manual, they indicate something that is a good idea, but the law does **not** say you **have** to do it: "can," "may," "might," "suggested," "should."



Abbreviations and units of measure

Pages viii and ix contain lists which explain the abbreviations and units of measure used in the class. You may want to take these pages out of the manual so you can easily refer to them during the class.

Glossary and resources

There is a glossary and a resource section at the end of the manual to help you find information you may need. The glossary has definitions of important terms used in the manual. The resource section tells you where to get more information about lead—including how to get in touch with private groups and government agencies as well as how to order some of the publications mentioned in the manual.

There is a section called *For more information* at the end of each chapter that lists documents which can provide more information on the topic discussed in that section of the course. The documents with a star (*) should be available from your instructor for your review while in class.



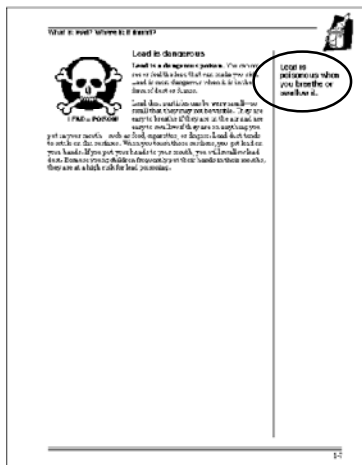
Course Overview



LEARNING OBJECTIVES

Learning objectives

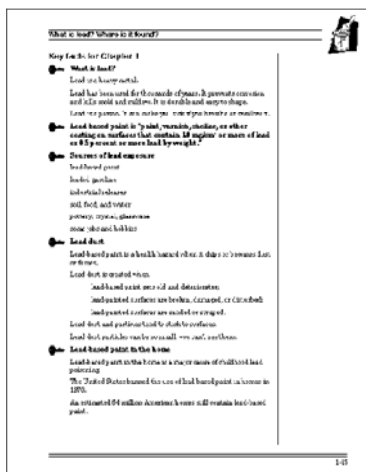
Every chapter begins with an explanation of what you will learn in that chapter. For example, the learning objectives for Chapter 1 are on page 1–3.



PULL QUOTES

Pull quotes

The most important ideas in each chapter are printed in bold in the margins of the page. New words are often defined in the margins. Most of those terms are also in the glossary.



KEY FACTS

Key facts

Every chapter ends with a box called “Key Facts.” For example, the Key Facts for Chapter 1 are on page 1–15. This section reviews the most important ideas and words that are covered in the chapter.



Abbreviations

There are many abbreviations used throughout this manual. This reference guide will help you to remember what these abbreviations mean. All of the abbreviations and words on this page are defined in the glossary.

ASV	anodic stripping voltametry
CDC	Centers for Disease Control and Prevention
CFR	Code of Federal Regulations
COSH	Coalition (or Committee) on Occupational Health and Safety
EPA	Environmental Protection Agency
GFCI	ground fault circuit interrupter
HEPA	high efficiency particulate air
HUD	Department of Housing and Urban Development
HVAC	heating, ventilating, and air conditioning system
K-XRF	K-X-ray fluorescence
LBP	lead-based paint
MSDS	material safety data sheet
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PAPR	powered air-purifying respirator
Pb	The chemical symbol for lead
PEL	permissible exposure limit
PF	protection factor
Poly	polyethylene sheet plastic
RCRA	Resource Conservation and Recovery Act
TCLP	toxic characteristic leaching procedure
TSCA	Toxic Substances Control Act
TSP	trisodium phosphate
XRF	X-ray fluorescence
ZPP	zinc protoporphyrin



Units of measure

These units will be explained and defined during this course.

cm	centimeter
cm ²	square centimeter
dL	deciliter
ft	foot
ft ²	square foot
m	meter
m ³	cubic meter
g	gram
mg	milligram
µg	microgram
ppm	parts per million

