

24-hr. California Lead Abatement Worker Syllabus

Time: 24 hours

Maximum Class Size: 10 during classroom activities

5 during hands-on activities

Prerequisites: None

Course Description:

This course is designed to introduce the technical and regulatory information the participant must know in order to work safely, effectively and efficiently on a lead abatement job. It introduces topics covered in the OSHA Lead Standard 29 CFR 1926.62 as well as California OSHA Lead Abatement standards. The participants become competent in lead abatement methods and work practices.

Goals/Objectives/Student Outcomes:

At the end of the 24-hour Lead Worker course, the participant will be able to:

1. State the ways lead can get into the body
2. List the major sources of lead exposure for both adults and children
3. List three reasons why lead was used in paint
4. Describe how restrictions on lead paint evolved in the U.S.
5. Describe three ways lead can harm the body
6. Explain why children are especially at risk for lead poisoning.
7. Explain what information a Blood Lead Level (BLL) test provides
8. Discuss Cal/OSHA's rules on medical removal protection for workers exposed to lead
9. Identify two ways of reducing blood lead levels in the body.
10. List at least three ways that lead dust can be created from lead paint.
11. Give CDPH definitions of lead-based paint, lead hazard and lead-contaminated dust.
12. Identify building components where lead paint hazards are commonly found.
13. Identify several methods of testing paint for lead-their advantages and disadvantages
14. Explain when personal air sampling for lead is required.
15. Define Action Level and PEL and calculate a ten-hour PEL.
16. List and explain Cal/OSHA's "trigger tasks."
17. Explain protective measures required for lead workers, including medical surveillance.
18. Identify rights and responsibilities of workers and employers under Cal/OSHA's Hazard Communication, Injury and Illness Prevention Program and Lead in Construction Standards.
19. Describe other laws applicable to lead workers, employers, building owners and occupants, including CDPH's Title 17.
20. List four types of information that must be included on a Safety Data Sheet and demonstrate the ability to read an SDS.
21. Describe the difference between temporary and permanent abatement methods and give at least three examples of each.
22. Identify work methods that produce lower amounts of lead dust.

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23. Describe the roles of certified lead workers, supervisors, inspector/assessors, sampling technicians and project monitors.
24. Explain when respirators should be used and their limitations.
25. Describe several types of respirators and how to choose the correct type.
26. Explain qualitative and quantitative fit testing and what factors affect fit.
27. Describe the elements of a respiratory protection program.
28. Describe the parts of a respirator and explain how to inspect it.
29. Demonstrate how to put on a respirator and do a user seal check.
30. Demonstrate how to clean and store a respirator.
31. Describe several types of personal protective equipment (PPE) that are used for lead work.
32. Select the appropriate PPE for a lead-related task.
33. Describe the correct donning and doffing of PPE.
34. Discuss the employer's responsibility for cleaning and disposal of PPE.
35. Define hazardous waste.
36. Explain why it is important to separate hazardous from non-hazardous waste on a lead job.
37. Discuss basic rules for labeling, storing, transporting and disposing of hazardous waste.
38. Describe the steps involved in setting up, doing and cleaning up small lead jobs.
39. Demonstrate these steps by doing a small job.
40. Identify the precautions required for different site preparation levels.
41. Demonstrate how to set up a large-scale lead job (including abatement jobs).
42. Explain how to perform at least four abatement methods
43. Demonstrate proficiency in at least two abatement methods.
44. Demonstrate how to do the final cleaning of a lead job.
45. Explain why achieving clearance is important.
46. Complete and submit their application for Lead Worker certification

Standards:

This 24-hour course addresses OSHA Lead Standard 29 CFR 1926.62, Cal/OSHA Lead in Construction standard and California Department of Public Health requirements in Title 17 of the California Code of Regulations (17CCR) that apply to all construction activities where workers may be exposed to lead.

Classroom Rules and Procedures:

- All classes begin at 6:30 am and end at 3:00 pm
- Upon entering classroom, all participants must sign in and be seated by 6:30 am
- Class will consist of a combination of lecture, video, demonstration, coached group exercises, individual exercises and assessment.
- Students are required to report to class ready to work and maintain the provided PPE

Textbooks/Readings/Materials:

Working Lead-Safe: A Lead Related Construction Work Course-California State Lead Abatement Worker Manual (Instructor & Student)

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Personal Protective Equipment:

- 12 pairs of gloves
- 12 pairs of safety glasses
- 20 pairs of ear plugs
- 12 hard hats

Course Requirements:

To receive credit for the course, participants must:

- Be present for full twenty-four hours
- Participate in all classroom exercises
- Pass a written exam
- Pass six **Demo Tests** (hands-on exams)

Course Policies

- Participants must be on-time and ready to work.
- Participants must return from breaks on-time.
- Participants must participate in each exercise and assignment
- Participants who are on “light duty” are not allowed to take this course due to the physically demanding requirements.

Assessment and Grading

Participants will be assessed on the following:

- All written exams must be passed with a score of **80%** or above.
- All hands-on exercises are graded on performance and participation. They are pass/fail and must be passed with a score of **80%** or above.

Safety

Failure to maintain and use PPE may result in dismissal from the course.