

Lead Protection Work Plan

(Required by WAC 296-155-17611 for construction or abatement projects when levels will exceed the permissible exposure limit)

PROCEDURE:

- Consult with the Environmental Health and Safety office*
- Provide written documentation as indicated below.*
- Inspect each piece of equipment prior to use to be sure it is in working order.*
- Train all employees as required. Inform contractors working in the area.*
- Only employees with baseline blood lead levels may perform abatement work.*
- Keep a copy of this plan on the work-site for the entire work duration.**
- A copy of the completed plan is sent to the Environmental Health and Safety office.*

Work Description : _____ Work Order Number: _____

Department: _____

Prepared by: _____ Date Prepared: _____

Duration of Work: _____ to _____

Reviewed by: _____ Date reviewed: _____

1. Location of Project:

This job will take place at: _____

A previous lead inspection of this location by _____
(name of person who inspected or name of firm) revealed that lead hazards are present in the following locations:

- These building components are coated with lead-based paint and represent a hazard to workers who may disturb it during lead hazard control, renovation, or maintenance activities.

2. Brief Description of Job

This job will involve the following lead hazard reduction measures (complete all that apply):

- Replacement of _____ (name all components)
- Enclosure of _____ (name all components)
- Paint Removal of _____ (name all components)
- Encapsulation of _____ (name all components)
- Paint Film Stabilization of _____ (name all components)
- Friction Surface Treatments of _____ (name all components)
- Impact Surface Treatments of _____ (name all components)
- Dust Removal in the following areas _____ (name all areas)

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Job Description : _____

3. Schedule

Work will proceed according to the following schedule:

Day 1: Initial set up, followed by:

_____ (name all tasks to be completed on the first day)

Daily cleanup: Wet mopping HEPA vacuuming Other

Day 2: Tasks _____

Day 3: Tasks _____

List additional days on reverse or a separate page

Last Day: Tasks _____

Final Cleanup and Clearance Examination

The job is expected to start on _____ (date) and end on _____ (date).

This Work Plan takes effect immediately on _____ (date).

The Competent Person (see Section 6) will conduct work site visual inspections on a daily basis.

4. Equipment and Materials

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> HEPA Vacuums | <input type="checkbox"/> Cleaning Detergents | <input type="checkbox"/> Protective Clothing | <input type="checkbox"/> Cotton Work Gloves |
| <input type="checkbox"/> Electric Power Saws | <input type="checkbox"/> Hammers | <input type="checkbox"/> Wrecking Bars | <input type="checkbox"/> Pry Bars |
| <input type="checkbox"/> Screwdrivers | <input type="checkbox"/> Plastic Sheeting | <input type="checkbox"/> Metal Scrapers | <input type="checkbox"/> Paint Rollers |
| <input type="checkbox"/> Rollers | <input type="checkbox"/> Brushes | <input type="checkbox"/> Butyl Rubber Gloves | <input type="checkbox"/> Respirators |
| <input type="checkbox"/> Cutting Shears | <input type="checkbox"/> Mops | <input type="checkbox"/> Plastic Sheeting | <input type="checkbox"/> Paint Brushes |
| <input type="checkbox"/> Compressed Air
Powered Water Pumps | <input type="checkbox"/> Chemical Strippers | | |

5. Crew

The work will be completed by a crew of _ (insert number) workers. Crew assignments are as follows:

NAME 1 _____ (task)
 NAME 2 _____ (task)
 NAME 3 _____ (task)

6. Competent Person

_____ (name), a certified lead abatement supervisor, will be on-site at all times and will act as the competent person for occupational health and safety issues. The Lead Supervisor License (or certificate) number is: _____. The Lead Supervisor will conduct daily inspections of the work areas to ensure that control measures, work practices, personal protective equipment, and hygiene facilities are used as prescribed in this document.

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Job Description : _____

7. Control Measures

The primary control methods for this project are (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> Method substitution (building component replacement, enclosure) | <input type="checkbox"/> Local exhaust ventilation (needle guns, vacuum blasting) |
| <input type="checkbox"/> Wet methods | <input type="checkbox"/> On-the-job training |
| <input type="checkbox"/> Wrapping materials to be discarded in plastic | <input type="checkbox"/> HEPA Vacuums |
| <input type="checkbox"/> Respiratory protection | <input type="checkbox"/> Containment (use of plastic barriers) |
| <input type="checkbox"/> General room ventilation | <input type="checkbox"/> Paper barrier (peel-away process) |

8. Technology Considered In Meeting The Permissible Exposure Limit

The document, *Housing and Urban Development (HUD) Guidelines for Evaluation and Control of Lead Hazards in Housing and Protecting Workers and Their Communities From Lead Hazards: A Guide for Protective Work Practices*, published by the Society of Occupational and Environmental Health and other publications were reviewed to determine the appropriate engineering controls to be used in this project. The only specialized equipment which will be utilized for this project are:

- HEPA-filtered vacuum cleaners and _____
(name all special equipment).

9. Respirators

All individuals in the work area will be provided with a NIOSH/MSHA approved half-mask air-purifying respirator equipped with HEPA cartridges or a powered air-purifying respirator (if so requested).

In the unlikely event that extremely high concentrations of lead are anticipated or found (over 500 milligrams per cubic meter of air over an eight-hour period), appropriate respiratory protection will be provided. Respirators are provided in the context of a complete respiratory protection program; the written respirator program is available in the *Safety Information Book*, found in each department.

Respirators will be required during (names phases of job for which respirators will be required):

Respirator used during other activities, including initial setup (laying down plastic for containment) and enclosure and encapsulation after surface preparation is not necessary, **unless** other workers nearby (same interior room or outside wall) are performing activities for which respirators are required.

10. Protective Clothing

Disposable protective clothing will be worn at all times inside the work area. Protective clothing will be made of breathable fabric to reduce the potential for worker heat stress. If visibly contaminated with dust or paint chips, protective clothing will be HEPA vacuumed off before it is removed. If personal clothing should become contaminated, it is placed in a plastic bag and the Environmental Health and Safety office is consulted regarding appropriate procedures.

11. Hygiene Facilities

Hand washing facilities will be used to decontaminate workers, since leaded dust levels are expected to be low. The facilities will be located in _____. Hands and face will be washed before all breaks and at the end of the day. Wastewater will be collected, pre-treated on site with filtration, and disposed of in accordance with prior arrangements made with the Bellingham Public Works Department.

12. Air Monitoring Data

As available, previous data for lead hazard control projects conducted with similar controls, environmental conditions, personnel and methods is reviewed.

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Job Description : _____

- Air sampling will be conducted by _____ (name of person).
- Air sampling will not be performed on this job, since typical exposures have already been established for this type of work by the Environmental Health and Safety office. Based on these results, the major exposures to lead will occur during _____
(name tasks during which substantial exposures are likely to occur).

In previous work conducted by Western using the same methods, **maximum** personal exposures measured for various activities were:

<u>Maximum Exposure (ug/m³)</u>	<u>Task</u>
_____	_____
_____	_____
_____	_____

These data are available for inspection at the Environmental Health and Safety office.

The environmental conditions in the previous projects closely resemble the current location. These maximum exposures are expected to represent “worst case” exposures because they did not include breaks or set up time; it is expected that 8-hour time-weighted average exposures on this job will be lower than these figures. However, worker respiratory protection requirements will be based on the maximum exposures to allow for unexpected variations.

13. Medical Surveillance Program

A medical surveillance program is in place for this work crew. It is supervised by Whatcom Occupational Health, 3015 Squalicum Parkway, Bellingham, WA 676-1693.

Worker blood lead levels are measured initially and periodically. Workers’ blood lead increases of 10 ug/dl or more or any blood lead level greater than 25 ug/dl will trigger an investigation of protective equipment and work practices. All workers on this project are informed of their blood lead levels as soon as they are received.

14. Training

The following workers will participate in this project. They have been trained in the hazards of lead and how to protect themselves. The training was conducted by the Environmental Health and Safety office.

<u>List Worker’s Names Who Were Trained</u>	<u>Date Trained</u>
_____	_____
_____	_____
_____	_____

15. Lead-Containing Material Disposal

Materials containing lead will be disposed of in accordance with federal and state regulation. Contact the Environmental Health and Safety office to arrange proper disposal. Lead-containing materials are to be handled as follows on site _____.