



UNIVERSITY OF  
**TORONTO**

**Lead Management Program for Building Maintenance and Construction Projects**

**Office of Environmental Health and Safety  
University of Toronto**

**September 2014**

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# 1 INTRODUCTION

Lead is a heavy metal that has been and continues to be widely used in industry for many years. Lead comes in different forms including its elemental state or combined chemically with other elements to form lead compounds. Inorganic lead compounds are commonly used in pigments, paints, glasses, plastics and rubber compounds. Lead is also a component in many metal alloys.

Lead was a component/additive to interior and exterior paints for many years. In 1976, the amount of lead in interior paint was limited by law but exterior paints could still contain higher amounts of lead, provided that they carried a warning label. In 2005, the Surface Coating Materials Regulations came into effect. This Regulation specifies that paint manufacturer could no longer add lead to their paint although paint manufacturer had voluntarily stopped adding lead in many of their paint products for some time before 2005. Some specialty coatings, such as artists' paints and metal touch-up coatings, can still contain higher levels of lead if they are labelled to warn against applying the paint to surfaces with which children and pregnant women might come in contact.

Lead is a Designated Substance under the Ontario Occupational Health and Safety Act. Health effects from overexposure to lead have been widely documented. Lead overexposure may result in damage to the blood-producing systems, kidneys, gastrointestinal system, nervous system and reproductive system. Therefore, adherence to protective measures is important for the protection of workers. The University of Toronto Lead Management Program for Building Maintenance and Construction outlines the roles and responsibilities of managers, supervisors and workers and defines the protective measures to be taken during different types of work.

## Objectives

The objectives of the Lead Management Program for Building Maintenance and New Construction ("Lead Management Program") are:

- 1) To protect the University community from the potential health risks associated with exposure to lead during building maintenance or new construction activities;
- 2) To provide a safe and healthy work and study environment for employees, students, contractors and visitors, in accordance with the University's Health and Safety Policy; and
- 3) To comply with the general duty clauses (Sections 23, 25(2)(h) and 27) under the Occupational Health and Safety (OHS) Act of Ontario, the Designated Substance Regulations (O. Reg 490/09) as it pertains to lead and the Regulation for Construction Projects (O. Reg. 213/91). This document is also based on the Guideline – Lead on Construction Projects (2004) from the Ontario Ministry of Labour.

## **Program Elements**

The basic elements of the control program are:

- 1) Identification of work areas / tasks where workers may be exposed to lead contamination;
- 2) Training and education of workers who may come into contact with lead contaminated material;
- 3) Provision of appropriate procedures for work which may result in workers being exposed to lead: Type I, II, IIIa, IIIb;
- 4) Reviewing the program on a regular basis and updating as needed.

## **Scope**

This program applies to all buildings, structures, machinery and equipment owned, occupied or operated by the University of Toronto at all campuses and other locations. It applies to all employees and students of the University, to contractors, to occupants of University buildings and to external organizations who may come into contact with or disturb lead-containing material in University buildings.

## 2 DEFINITIONS

"**construction**" includes erection, alteration, repair, dismantling, demolition, structural maintenance, painting, land clearing, earth moving, grading, excavating, trenching, digging, boring, drilling, blasting, or concreting, the installation of any machinery or plant, and any work or undertaking in connection with a project but does not include any work or undertaking underground in a mine;

"**constructor**" means a person who undertakes a project for an owner and includes an owner who undertakes all or part of a project by himself or by more than one employer;

"**designated substance**" means a biological, chemical or physical agent or combination thereof prescribed as a designated substance to which the exposure of a worker is prohibited, regulated, restricted, limited or controlled. The designated substances in Ontario are: acrylonitrile, arsenic, asbestos, benzene coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica and vinyl chloride;

"**lead work**" in this document refers to building and maintenance activities which may result in exposure to lead dust or fumes. Refer to Appendix I for examples of materials that may contain lead and to Section 4 for examples of activities which may cause the lead in these materials to be released;

"**project**" means a construction project, whether public or private, including,

- (a) the construction of a building, bridge, structure, industrial establishment, mining plant, shaft, tunnel, caisson, trench, excavation, highway, railway, street, runway, parking lot, conduit, sewer, water main, service connection, telegraph, telephone or electrical cable, pipe line, duct or well, or any combination thereof,
- (b) the moving of a building or structure, and
- (c) any work or undertaking, or any lands used in connection with construction.

## **3 ROLES AND RESPONSIBILITIES**

### **3.1 Office of Environmental Health and Safety**

The Director, Environmental Health and Safety, or Designate has the following responsibilities:

1. To manage and oversee the development, maintenance, quality and effectiveness of the Lead Management Program.
2. To provide technical advice and recommendations for controlling lead exposure during building-related activities.
3. When required, to provide consultation to University departments in the classification of work (Type I, II, IIIa and IIIb) where lead exposure may occur.
4. To assist University departments in investigations/assessments for the presence of lead.
5. To provide ongoing lead training and education programs as necessary.
6. To conduct respiratory protection training and fit-testing for all University employees who may require respiratory protection in the course of their work.
7. To review the Lead Management Program and Lead SOPs once every three years and amend/revise as necessary.

### **3.2 St. George Campus - Facilities and Services (F&S)**

#### **3.2.1 Manager, Hazardous Construction Materials Group**

The Manager, Hazardous Construction Materials Group, in the Utilities and Building Operations Division, Facilities and Services, has the following responsibilities:

1. To assist in implementing and enforcing the requirements of the Lead Management Program for all work initiated by any division within Facilities and Services.
2. To work in close liaison with all divisions within Facilities and Services, Project Management, the Office of Environmental Health and Safety, and other departments to ensure compliance with the Lead Management Program.
3. To assist internal and external departments in the classification (Type I, II, IIIa and IIIb) of 'lead work' (building maintenance and construction work involving lead) and make

recommendations on the appropriate precautions.

4. To provide the Office of Environmental Health and Safety with the results of investigations for potential lead.
5. To notify the Office of Environmental Health and Safety of all Type IIIa and IIIb lead related work for which he/she is responsible.
6. To review and approve all Type IIIa and IIIb lead related work initiated by divisions within Facilities and Services, except for those activities under the jurisdiction and approval of the Manager or Assistant Manager, Trade Services. For work activities not listed in the SOPs, to notify and consult with the Office of Environmental Health and Safety on classification and work procedures.
7. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead Management Program.
8. For all lead work that he/she is responsible for, ensure that work is only conducted by qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.
9. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.

### **3.2.2 Directors, Division of Facilities and Services (including the Director, Utilities & Building Operations) F & S**

The Director of each Division of F&S (including the Director, Utilities & Building Operations) and his/her Designate who contracts or performs lead work has the following responsibilities:

1. To ensure that all lead related activities are performed in accordance with the procedures established under the Lead Management Program
2. To classify all lead related work under his/her jurisdiction as Type I, II, IIIa and IIIb lead related work, in consultation with the Manager, Hazardous Construction Materials Group (F&S) as needed.
3. To obtain approval of all Type IIIa and IIIb lead work from the Manager, Hazardous



Construction Materials Group (F&S) prior to authorizing the start of the work.

4. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead Management Program.
5. Lead is a Designated Substance under the Ontario Occupational Health and Safety Act. For all lead work that he/she is responsible for, informing internal departments or prospective contractors of the presence of designated substance during the tendering process and prior to signing a binding agreement. This notification should be given in writing in the form of a list which may take the form of a designated substance report or a pre-construction survey and should be provided in the tender.
6. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.
7. For all lead work that he/she is responsible for, ensure that work is only conducted by qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.
8. Ensure that new coatings and paint are lead-free. In rare cases where it is not possible to use lead-free paint or coatings, the Director of the Division authorizing the work must approve the use of lead paint or coatings (see Appendix II) in consultation with the Office of Environmental Health and Safety.
9. To provide notification of Type IIIa and IIIb lead work, reasonably in advance of the commencement of the work, to:
  - a. the Manager, Hazardous Construction Materials Group (F&S);
  - b. the Director, Property Management for areas involving the building fabric;
  - c. the Director, Utilities & Building Operations for areas under the control of Utilities & Building Operations;
  - d. the Director, Office of Environmental Health and Safety or Designate;
  - e. the pertinent joint health and safety committee; and
  - f. building occupants.
10. To maintain records of all lead work for which he/she is responsible and to forward copies to the Manager, Hazardous Construction Materials Group (F&S).

### **3.2.3 Managers, Mechanical Operations and Maintenance**

The responsibilities listed in 3.2.2 also apply to Managers, Mechanical Operations and

Maintenance, Facilities and Services, for areas/work where they have jurisdiction and responsibility.

### **3.2.4 Property Managers**

The responsibilities listed in 3.2.2 also apply to Property Managers, Property Management, Facilities and Services, for areas/work where they have jurisdiction and responsibility.

### **3.2.5 Manager or Assistant Manager, Trade Services**

The Manager, Trade Services, has the following responsibilities for areas/work where they have jurisdiction and responsibility:

1. To ensure that all lead related activities are performed in accordance with the procedures established under the Lead Management Program
2. To classify all lead related work under his/her jurisdiction Type I, II, IIIa and IIIb as listed in the Standard Operating Procedures (SOP). For work activities not listed in the SOPs, obtain classification from the Office of Environmental Health and Safety.
3. To approve and be responsible for all lead work covered by the SOPs (Type I, II, IIIa and IIIb) performed by his/her staff or external individuals whom he/she contracts to do the work, and to ensure that such work is conducted in accordance with the Lead Control Program by regular monitoring of the progress of the work and conducting regular site inspections. For lead work activities not covered by the SOPs, obtain approval from the Office of Environmental Health and Safety.
4. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead Management Program.
5. For all lead work that he/she is responsible for, inform prospective external contractors or internal departments who may be contracted to perform work about the presence of lead.
6. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.
7. For all lead work that he/she is responsible for, ensure that work is only conducted by

qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.

8. Ensure that new coatings and paint are lead-free. In rare cases where it is not possible to use lead-free paint or coatings, the Director of the Division authorizing the work must approve the use of lead paint or coatings (see Appendix II) in consultation with the Office of Environmental Health and Safety
9. To provide notification of Type IIIa and IIIb lead work, reasonably in advance of the commencement of the work, to:
  - a. the Manager, Hazardous Construction Materials Group (F&S);
  - b. the Director, Property Management for areas involving the building fabric;
  - c. the Director, Utilities & Building Operations for areas under the control of Utilities & Building Operations;
  - d. the Director, Office of Environmental Health and Safety or Designate;
  - e. the pertinent joint health and safety committee; and
  - f. building occupants.
10. To maintain records of all lead work for which he/she is responsible and to forward copies to the Manager, Hazardous Construction Materials Group (F&S).

### **3.3 Project Management and Design and Engineering (D&E)**

#### **3.3.1 Director, Project Management and Director, Design and Engineering**

The Director, Project Management and Director, Design and Engineering and his/her Designate have the following responsibilities for lead in building areas that are within the scope a capital project:

1. To classify all lead related work under his/her jurisdiction Type I, II, IIIa and IIIb as listed in the Standard Operating Procedures (SOP). For work activities not listed in the SOPs, obtain classification from the Office of Environmental Health and Safety.
2. To approve all lead work covered by the SOPs (Type I, II, IIIa and IIIb) performed by his/her staff or external individuals whom he/she contracts to do the work, and to ensure that such work is conducted in accordance with the Lead Control Program by regular monitoring of the progress of the work and conducting regular site inspections. For lead work activities not covered by the SOPs, obtain approval from the Office of Environmental Health and Safety.
3. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead

## Management Program.

4. For all lead work that he/she is responsible for, inform prospective external contractors or internal departments who may be contracted to perform work about the presence of lead.
5. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.
6. For all lead work that he/she is responsible for, ensure that work is only conducted by qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.
7. Ensure that new coatings and paint are lead-free. In rare cases where it is not possible to use lead-free paint or coatings, the Director, Project Management, must approve the use of lead paint or coatings (see Appendix II) in consultation with the Office of Environmental Health and Safety.
8. To provide notification of Type IIIa and IIIb lead related work, reasonably in advance of the commencement of the work, to:

### For the St. George Campus:

- a. the Manager, Hazardous Construction Materials Group (F&S);
- b. the Director, Property Management for areas involving the building fabric;
- c. the Director, Utilities & Building Operations for areas under the control of Utilities & Building Operations;
- d. the Director, Office of Environmental Health and Safety or Designate;
- e. the pertinent joint health and safety committee (where applicable in occupied buildings); and
- f. building occupants (where applicable).

### For the Mississauga Campus:

- a. the Director, Facilities Management and Planning;
- b. the Director, Office of Environmental Health and Safety or Designate;
- c. the pertinent joint health and safety committee (where applicable in occupied buildings); and
- d. building occupants (where applicable)

### For the Scarborough Campus:

- a. the Director, Facilities Management;

- b. the Director, Design & Construction Management
  - c. the Director, Office of Environmental Health and Safety or Designate; and
  - d. the pertinent joint health and safety committee (where applicable in occupied buildings); and
  - e. building occupants (where applicable).
9. To be responsible for notifying and liaising with building occupants and joint health and safety committees regarding the precautions for all lead related work on the Utilities equipment in their building.
  10. To maintain records of all lead related work for which he/she is responsible and forward copies to the Manager, Hazardous Construction Materials Group (F&S) for the St. George Campus, the Director, Facilities Management and Planning for the Mississauga Campus or the Director, Facilities Management for the Scarborough Campus.
  11. To ensure that all lead related activities are performed in accordance with the procedures established under the Lead Management Program.

### **3.3.2 Project Managers**

The Project Managers, Project Management, have the responsibilities for lead work in building areas that are within the scope of a capital project. The responsibilities listed in 3.3.1 apply.

## **3.4 Mississauga Campus**

### **3.4.1 Director, Facilities Management and Planning**

The Director, Facilities Management and Planning and his/her Designate who contracts or performs lead work has the following responsibilities

1. To classify all lead related work under his/her jurisdiction Type I, II, IIIa and IIIb as listed in the Standard Operating Procedures (SOP). For work activities not listed in the SOPs, obtain classification from the Office of Environmental Health and Safety.
2. To approve all lead work covered by the SOPs (Type I, II, IIIa and IIIb) performed by his/her staff or external individuals whom he/she contracts to do the work, and to ensure that such work is conducted in accordance with the Lead Control Program by regular monitoring of the progress of the work and conducting regular site inspections. For lead work activities not covered by the SOPs, obtain approval from the Office of Environmental Health and Safety.
3. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead

## Management Program.

4. For all lead work that he/she is responsible for, inform prospective external contractors or internal departments who may be contracted to perform work about the presence of lead.
5. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.
6. For all lead work that he/she is responsible for, ensure that work is only conducted by qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.
7. Ensure that new coatings and paint are lead-free. In rare cases where it is not possible to use lead-free paint or coatings, the Director, Facilities Management and Planning, must approve the use of lead paint or coatings (see Appendix II) in consultation with the Office of Environmental Health and Safety.
8. To provide notification of Type IIIa and IIIb lead work, reasonably in advance of the commencement of the work, to:
  - a. the Director, Office of Environmental Health and Safety or Designate;
  - b. the pertinent joint health and safety committee; and
  - c. building occupants.
9. To be responsible for notifying and liaising with building occupants and local joint health and safety committees regarding the precautions for all lead related work taking place in their building.
10. To maintain records of all lead work for which he/she is responsible and to forward copies to the Office of Environmental Health and Safety.

### **3.5 Scarborough Campus**

#### **3.5.1 Director, Facilities Management and Director, Design & Construction Management**

The Director, Facilities Management and the Director, Design & Construction Management and his/her Designate who contracts or performs lead work has the following responsibilities

1. To ensure that all lead related activities are performed in accordance with the procedures established under the Lead Management Program
2. To classify all lead related work under his/her jurisdiction Type I, II, IIIa and IIIb as listed in the Standard Operating Procedures (SOP). For work activities not listed in the SOPs, obtain classification from the Office of Environmental Health and Safety.
3. To approve all lead work covered by the SOPs (Type I, II, IIIa and IIIb) performed by his/her staff or external individuals whom he/she contracts to do the work, and to ensure that such work is conducted in accordance with the Lead Control Program by regular monitoring of the progress of the work and conducting regular site inspections. For lead work activities not covered by the SOPs, obtain approval from the Office of Environmental Health and Safety.
4. To be responsible for all lead work performed by his/her employees or by external individuals contracted by him/her to do lead-related work in accordance with the Lead Management Program.
5. For all lead work that he/she is responsible for, inform prospective external contractors or internal departments who may be contracted to perform work about the presence of lead.
6. For all lead work that he/she is responsible for, ensure that safe work procedures are in place, and that all other requirements of the Lead Management Program are implemented. This shall be accomplished by monitoring the progress of such work and by conducting random site inspections.
7. For all lead work that he/she is responsible for, ensure that work is only conducted by qualified/trained employees or external contractors with proven service and performance, and written documentation of adequate training and experience, in accordance with the Lead Management Program.
8. Ensure that new coatings and paint are lead-free. In rare cases where it is not possible to use lead-free paint or coatings, the Director of the Division authorizing the work must approve the use of lead paint or coatings (see Appendix II) in consultation with the Office of Environmental Health and Safety.
9. To provide notification of Type IIIa and IIIb lead work, reasonably in advance of the commencement of the work, to:
  - a. the Director, Office of Environmental Health and Safety or Designate; and
  - b. the pertinent joint health and safety committee;
  - c. building occupants.
10. To be responsible for notifying and liaising with building occupants and local joint health and safety committees regarding the precautions for all lead related work taking place

in their building.

11. To maintain records of all lead work for which he/she is responsible and to forward copies to the Office of Environmental Health and Safety.

### **3.6 External Contractors**

External contractors performing lead work have the following responsibilities:

1. To comply with the requirements of the University Lead Management Program and of other University programs where applicable (e.g. respiratory protection, hazardous waste management, confined space entry).
2. To ensure that all employees under their direction are properly trained in the hazards of lead and control procedures prior to conducting any lead work, and to provide evidence of this to the department contracting the work.



## 4 Lead Standard Operating Procedures (SOPs)

For the protection of workers performing lead work, SOPs have been developed. SOPs describe procedures that must be followed when planning, preparing and performing lead work. The SOPs are separate documents and are available on the [Office of Environmental Health and Safety Policies and Procedures Listing](#) website.

Lead related work has been divided into four categories (Type I, II, IIIa and IIIb) based on the potential for exposure to lead. SOPs have been prepared for each type of work:

Type	Tasks
I	<ul style="list-style-type: none"> <li>• Removal of lead-containing coatings with a chemical gel, paste and fibrous laminated cloth</li> <li>• Removal of lead-containing coatings or materials, using a power tool that has a dust collection system equipped with HEPA</li> <li>• Installation or removal of lead-containing sheet metal</li> <li>• Installation or removal of lead-containing packing, babbitt or similar material</li> <li>• Removal of lead-containing coatings or materials using non-powered hand tools, other than manual scraping or sanding</li> <li>• Soldering</li> <li>• High Voltage (HV) Lead Cable Splicing</li> </ul>
II	<ul style="list-style-type: none"> <li>• Welding or high temperature cutting of lead-containing coatings or materials outdoors (CONDITIONS: &lt; 1 hr and the material has been stripped prior). If none of these conditions are met, then it is a Type IIIa operation.</li> <li>• Removal of lead-containing coatings or materials by scraping or sanding using non-powered hand tools.</li> <li>• Burning of a surface containing lead for &lt; 1 hr consecutively.</li> <li>• Removal of lead-containing coatings or materials using power tools WITHOUT an effective dust collection system equipped with a HEPA filter &lt; 1 hr consecutively.</li> <li>• Manual demolition of lead-painted plaster walls or buildings components by striking a wall with a sledge hammer or similar tool.</li> <li>• Drilling 15 or fewer holes in lead-lined drywall.</li> </ul>
IIIa	<ul style="list-style-type: none"> <li>• Welding or high temperature cutting of lead-containing coatings or materials INDOORS or in a CONFINED SPACE.</li> <li>• Burning of a surface containing lead for &gt; 1 hr consecutively.</li> <li>• Removal of lead-containing coatings or materials using power tools WITHOUT an effective dust collection system equipped with a HEPA filter &gt; 1 hr consecutively.</li> <li>• Dry removal of lead-containing mortar using an electric or pneumatic cutting device.</li> <li>• Removal or repair of a ventilation system used for controlling lead exposure.</li> <li>• Demolition or clean up of a facility where lead-containing products were manufactured.</li> </ul>
IIIb	<ul style="list-style-type: none"> <li>• Abrasive blasting of lead-containing coatings or materials.</li> <li>• Removal of lead-containing dust using an air mist extraction system.</li> </ul>

## 5 TRAINING

All University employees who are required to perform lead work must receive training on Lead. This course will cover the following topics:

1. Lead Awareness during Building Maintenance and Construction Activities
  - Health Hazards Associated with Lead Exposure
  - Regulatory Requirements
  - University of Toronto Lead Management Program
  - University of Toronto Lead SOPs – Safe Work Procedures
2. Small Scale, Short Duration Asbestos Activities (Module 2B)

Depending on the scope of work, University employees performing lead work may require training in:

3. Respiratory Protection
  - Note: Respirator Fit Testing (must be current within 2 years)
  - Type II, IIIa and IIIb lead work require the use of respiratory protection
4. Confined Space

External contractors must ensure that their employees have received training equivalent to the requirements listed above and provide written evidence of such training. External contractors must also ensure that their employees have been instructed on the requirements of the University of Toronto's Lead Management Program and of other University of Toronto Programs where applicable.

## Appendix I – Examples of Lead Containing Materials

In some materials, the presence of lead is obvious (such as piping, sheet metal, etc.) but in some materials or finished products, the presence of lead may not be as obvious. Here are examples of materials that may contain lead which may be less obvious:

- Cable coverings
- Glass (leaded glass for radiation protection, stained glass)
- Glazed ceramic tiles (frequently used in washrooms)
- Linings that are chemically-resistant
- Metal sheets used in roofing
- Mortar
  - Lead may be present in mortar in the form of pigments added to the mortar or leached from flashings and cappings
  - In specific cases, lead sand may be used to manufacturer mortar used in radiation shielding
- Paints and Coatings
  - Particularly paint and coatings manufactured before the 1976
  - Specialty paints manufactured more recently may still contain lead. Examples are fluorescent floor paint, artist's paints, metal touch-up coatings
- Solder and welding rods
- Storage tanks
- X-ray or other radiation shielding

## Appendix II – Approval for Use of New Lead-Containing Paints and Coatings

Approval must be obtained from the Director of the division or department authorizing this work. Refer to the Lead Management Program, University of Toronto, for more information.

<b>Project or Work Service Order #</b>	
<b>Description of Work</b>	
<b>Authorizing Department</b>	
<b>Requestor</b>	

### *Lead-containing Paint or Coating Information*

<b>Name of Product</b>	
<b>Supplier</b>	
<b>Quantity</b>	
<b>Structure to be used on</b>	
<b>Reason for using this product (explain why this product must be used)</b>	

### *Alternatives considered (at least 2)*

<b>Alternative #1</b>	
<b>Name of Product</b>	
<b>Supplier</b>	
<b>Reason for NOT using this product</b>	
<b>Alternative #2</b>	
<b>Name of Product</b>	
<b>Supplier</b>	
<b>Reason for NOT using this product</b>	

### *Approval (required)*

<b>Name</b>	
<b>Title</b>	
<b>Signatur</b>	
<b>Date</b>	

Send a copy of this to the Office of Environmental Health and Safety (FAX: 416-971-1361). Retain the original with the project or work order files.

## Appendix III –Instructions for Collecting Bulk Samples for Lead Analysis

Samples are collected by the Hazardous Construction Materials Group group (F&S) or by the Office of Environmental Health and Safety or by those individuals contracted/approved by these two groups.

### Equipment:

1. Utility/Putty Knife or Sharp Scraper
2. Heavy duty zip lock bags
3. Pen or marker
4. Disposable gloves
5. Chain of custody form
6. Camera (optional)

### Instructions

1. Wear disposable gloves.

#### If collecting paint samples:

2. Where possible, collect samples of dried paint that has flaked off or is loose and can be easily removed.
3. If not possible, scrape off a small amount (about the size of a nickel or quarter) using the utility/putty knife or sharp scraper. Avoid generating airborne dust as much as possible. Continue to step 4.

#### For other types of bulk material:

4. Place sample(s) in the zip lock bag. Place in a second zip lock bag (i.e. double bag)
5. Throw away gloves if you are finished collecting samples.
6. Label sample and chain of custody form. Ensure you have documented who collected the sample and the location of the sample. You may wish to take a photo of location for reference later on.
7. After you leave the work area, wash your hands prior to eating, drinking or smoking.
8. Forward the sample(s) and the chain of custody form to the Office of Environmental Health and Safety for processing.

## Appendix IV – Sample Inspection Checklist for Type II, IIIa and IIIb Lead Work Exceeding 1 Shift

<b>Project or Work Service Order #</b>	
<b>Description of Work</b>	
<b>Lead Work Classification /SOP (Type II, IIIa or IIIb)</b>	
<b>Authorizing Department / UofT Person Authorizing Work</b>	
<b>Inspected By* / Company if not UofT</b>	

\* The inspection should be conducted by a person who is knowledgeable of the work activity taking place and on the requirements of the UofT Lead Management Program and the applicable SOP.

1. The materials, equipment, personal protective equipment (PPE) specified in the SOP are on site and used in the manner described in the SOP.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Signage has been posted at each entrance to the work area for (an example is shown in the SOPs).	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Type IIIa & IIIb: Enclosures and Decontamination Facilities are in good condition with no observable deficiencies.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. General ventilation (full enclosures) and local ventilation has been tested and meets the requirements of the SOP.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. General ventilation in the work area have been shutdown and isolated. All air intakes have been sealed with polyethylene and duct tape.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Good housekeeping is observed.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7. Only HEPA vacuum or wet wiping is used to clean surfaces.	<input type="checkbox"/> Yes <input type="checkbox"/> No

**Corrective Actions (if any):**

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**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Send this Form to the UofT Person Authorizing the Work.