

General SOP for Asbestos Type 1 Operations

1. Purpose and scope

The purpose of this procedure is to ensure that personnel within Carleton University's Department of Facilities Management and Planning perform Type 1 asbestos abatement work in accordance with applicable regulations within Carleton University's facilities.

What is a Type 1 Asbestos Operation?

With proper training, Carleton FMP personnel can safely perform Type 1 asbestos operations. As outlined in O.Reg. 278/05, Type 1 asbestos abatement operations may include the following:

- The removal of non-friable asbestos-containing floor tiles and mastic without breaking, cutting, drilling, abrading, grinding, sanding, or vibrating the floor tiles or mastic.
- The removal of asbestos-containing ceiling tiles less than 7.5 m² without breaking, cutting, drilling, abrading, grinding, sanding, or vibrating the ceiling tiles; and friable asbestos-containing material is NOT likely to be lying on the surface of the ceiling tile.
- The removal of other non-friable asbestos-containing materials, other than drywall joint compound, when the work is done only with non-powered hand-held tools and the material is wetted before the removal.
- The removal of less than one square metre of drywall where asbestos-containing drywall joint compound has been found.
- Breaking, cutting, drilling, abrading, grinding, sanding or vibrating non-friable asbestos-containing material if,
 - The material is wetted to control the spread of dust or fibers, and
 - The work is done only utilizing non-powered hand-held tools.

These Type 1 Asbestos Procedures assume the non-friable material can be removed with relatively little loose dry dust released. Generation of debris is permissible if the debris can be well wetted before being removed. If the work will release more than a trivial amount of dry loose dust, do not proceed further with the work.

2. Equipment

All equipment must be on site before proceeding.

HEPA Vacuum: Use of a vacuum is optional. Wet cleaning methods may be used in place of a HEPA vacuum. If a vacuum is used, it must be equipped with a high-efficiency particulate aerosol (HEPA) filter. The vacuum must only be opened to be cleaned or to dislodge blocked objects in an enclosure following Type 2 procedures. The vacuum exterior should be carefully wet cleaned after each use or after each emptying.

Respirators: Use of a respirator is optional. However, a respirator is recommended for all Type 1 work. The employer will supply at the workers' request a half face respirator with P100 (HEPA) filters, with training on use and qualitative fit testing. A respirator must be used according to the written use procedures provided to the worker as per training procedures. Filters must be changed after 24 hours of

wear or sooner if breathing resistance increases as filters become damp. No person using a respirator shall have facial hair that affects the seal between the respirator and the face.

Protective Clothing: Disposable protective clothing is optional. The employer will supply at the worker's request. Non-disposable clothing with visible asbestos contamination shall be cleaned with a HEPA vacuum and laundered as asbestos-contaminated. Disposable clothing and respirator filters are to be disposed of as asbestos waste.

Other Equipment

The following equipment will also be required to perform the work.

- 6 mil polyethylene to serve as a drop sheet.
- Pump sprayer with misting nozzle or alternative method to wet material.
- Labelled yellow asbestos waste bags (6 mil) - for all asbestos waste, disposable equipment, plastic, etc.
- Small tools and cleaning supplies - e.g. scouring pads, sponges, brushes, buckets, etc.

3. Scheduling of work

Schedule work when occupants are absent. If persons are present, do not start work. If work is required on an emergency basis and the area is occupied, Project Manager will advise occupants to vacate area until work is complete, and clearance is given to return.

THE FOLLOWING MEASURES AND PROCEDURES APPLY TO TYPE 1 OPERATIONS:

1. Before beginning work, visible dust will be removed with a damp cloth or a vacuum equipped with a HEPA filter from any surface in the work area, including the thing to be worked on, if the dust on that surface is likely to be disturbed.
2. The spread of dust from the work area will be controlled by measures appropriate to the work to be done including the use of drop sheets of polyethylene or other suitable material that is impervious to asbestos.
3. When required, the material will be wetted before and kept wet during the work to control the spread of dust or fibres, unless wetting would create a hazard or cause damage. A wetting agent will be added to water that is to be used to control the spread of dust and fibres.
4. Frequently and at regular intervals during the work and immediately on completion of the work, dust and waste will be cleaned up and removed using a vacuum equipped with a HEPA filter, or by damp mopping or wet sweeping, and placed in a proper disposal container, and
5. After the work is completed, polyethylene sheeting and similar materials used for barriers and enclosures will not be reused but will be wetted and placed in a proper disposal container as soon as possible. All waste disposal containers will be sealable, and they will be thoroughly cleaned following the disposal of all waste materials. Disposal of all asbestos containing, and contaminated, waste will be handled by a licensed waste disposal transporter, and all waste will be disposed of properly in a licensed waste disposal site.
6. After the work is completed, barriers and portable enclosures that **will be reused shall be cleaned**, by using a vacuum equipped with a HEPA filter or by damp wiping, as soon as practicable.
7. **Barriers and portable enclosures will not be reused unless they are rigid and can be cleaned thoroughly. Compressed air will not be used to clean up and remove dust from any surface.**

8. Eating, drinking, chewing or smoking will not be permitted in the work area.
9. The workers supervisor will provide the worker with a NIOSH approved respirator (N/P/R 100 half-face air purifying respirator) in accordance with all applicable governmental regulations, and the worker will wear and use the respirator.
10. If requested, the workers supervisor will provide the worker with adequate and proper protective clothing (i.e., impermeable clothing, nitrile gloves), and the worker will wear the protective clothing. A worker who is provided with protective clothing will, before leaving the work area,
11. decontaminate his or her protective clothing by using a vacuum equipped with a HEPA filter, or by damp wiping, before removing the protective clothing,
12. if the protective clothing will not be reused, place it in a proper disposal container.
13. Facilities for the washing of hands and face will be made available to workers and shall be used by every worker when leaving the work area

RESTRICTED ACCESS SIGNAGE

