PROCEDURES FOR TYPE 2 OR MODERATE RISK WORK

These procedures are to be followed by all persons required to perform the following work:

☐ Entry into any ceiling space above which an asbestos-containing fireproofing or thermal insulation is present.
☐ Entry into a crawlspace, mechanical chase, service area, etc. in which there is known to be loose and damaged asbestos-containing materials or debris.
☐ The clean-up, removal or encapsulation of minor amounts of friable asbestos-containing materials. Limitations as to the amount of material allowed to be removed or otherwise disturbed while adhering to Type 2 precautions shall be at the sole discretion of the Asbestos Programs Officer or Designated Inspection Agency.
☐ Removal of asbestos-containing sheet flooring.
☐ Repair of asbestos-containing mechanical insulation materials.
☐ Removal of greater than ten (10) asbestos-containing ceiling tiles. The removal of less than ten (10) ceiling tiles can be classified as a Type 1 operation provided the approval of the Asbestos Programs Officer or Designated Inspection Agency is obtained prior to the commencement of such work.

NOTE: The following procedures shall be read in conjunction with all other requirements and procedures as set forth under Appendix K of the AMP document.

1.0 EQUIPMENT

All tools, supplies and equipment necessary for the safe and effective completion of the work must be on-site before work proceeds.

1.1 Vacuum

An asbestos-approved vacuum (HEPA filtered), equipped with miscellaneous brushes, fittings, etc.. Vacuum must not be opened, except by a fully protected worker while within a sealed Type 2 enclosure.

1.2 Respirators

The use of a negative pressure non-powered half-face respirator equipped with HEPA cartridge filters shall be mandatory for all work performed within an established Type 2 work area.

1.3 Other Equipment

☐ Plastic sheet (6 mil polyethylene) – to erect a total enclosure and to serve as a drop sheet.
☐ Wood framing or clips to support polyethylene sheeting as may be appropriate to work at hand.
☐ Duct tape to fasten plastic enclosure to ceiling, walls, or to tape drop sheet to floor; 3/4” double-sided tape recommended for attaching polyethylene to T-bar ceiling and floor surfaces.
☐ Labelled asbestos waste bag (6 mil) – for all asbestos waste, disposable suits, plastic for disposal, etc..
☐ Pump sprayer with misting nozzle or alternative method to wet material before handling.
☐ Barrier tape and signage – to identify extent of work area.
☐ Misc. small tools – i.e. scrapers, wire brushes, utility knives, hammer, nails, stapler and staples, etc..
☐ Cleaning supplies – i.e. scouring pads, sponges, rags, brushes, buckets, etc..
☐ Insulation repair supplies (lagging compound, canvas, PVC covers).
☐ Encapsulating sealer, for brush or airless spray application.
PROCEDURES FOR TYPE 2 OR MODERATE RISK WORK

2.0 SITE ACCESS & EGRESS

2.1 Before entering Asbestos Work Area, each worker shall first don approved respirator with new or tested filters, coveralls and all other personal protective equipment deemed appropriate to the work at hand.

2.2 Before leaving the Asbestos Work Area, remove contamination from protective clothing and equipment using a HEPA vacuum or damp cloth.

2.3 Immediately after exiting the Asbestos Work Area, each worker shall complete the following:

.1 Notwithstanding the above, and wherever an attached airlock has been provided, each worker shall reseal the curtained doorway upon exiting the Asbestos Work Area.

.2 Remove contaminated clothing and place it into a labelled asbestos waste container for disposal.

.3 Clean contaminated footwear, hard hats, etc., or place into a sealed polyethylene bag for re-use.

.4 Wash hands in wash bucket provided for this purpose.

2.4 Following the above, remove respirator then proceed directly to wash station and complete the following:

.1 Notwithstanding the above, and wherever an attached airlock has been provided, each worker shall exit the airlock and reseal curtain doorway before removing their respirator.

.2 Wash exposed skin and respirator with soap and water.

.3 Seal inlet side of respirator filters with tape then remove filters for testing or dispose of as asbestos contaminated waste.

3.0 PREPARATION

3.1 Before undertaking any asbestos-related work, a copy of a signed and approved “Asbestos Work Permit” must be obtained from the Asbestos Programs Officer.

3.2 Shutdown ventilation systems to and from the work area. Seal over all ventilation openings, diffusers, grilles, etc., with polyethylene and tape.

3.3 Wherever any non-asbestos dust settled on surfaces throughout the Asbestos Work Area is likely to be disturbed, pre-clean such surfaces using a HEPA vacuum or damp cloth prior to commencing any other work in the area.

3.4 Where practical, clear areas of movable furnishings and equipment. This should include anything which occupants may wish to use during the work period. Any furnishings or equipment not removed shall be adequately covered and sealed over using polyethylene and tape. The intent of the protection is to provide an airtight envelope to protect the articles from airborne dust or splashed debris, water, sealer, etc..

3.5 For small rooms, cover walls with polyethylene such that the complete room becomes the work area. For larger rooms, erect enclosure of polyethylene of suitable dimensions to enclose the work area and any scaffolds or ladders that may be required to gain access. If a suspended ceiling is present, the enclosure shall extend to the u/s of ceiling line. The enclosure shall be as airtight as conditions permit including the provision of a double overlapping flap at the entrance. The floor of the work area shall be covered with a layer of polyethylene sealed to the plastic walls of the enclosure.
3.6 At locations where a sealed work enclosure has been erected, provide an attached airlock to facilitate access and egress to and from the work area while minimizing any air movement.

3.7 Install temporary lighting to provide for safe and effective completion of the work.

3.8 At locations where a sealed Type 2 enclosure has been provided, establish negative pressure within the Asbestos Work Area as follows:

.1 Provide a minimum of two (2) HEPA vacuums or required number of negative pressure units within each work area.

.2 Operate vacuums (or negative pressure units) continuously from this point until completion of site dismantlement.

.3 Provide additional vacuums (or negative air units) as necessary to maintain desired pressure drop and to ensure at all times air movement at perimeter of enclosure flows inward into the work area.

3.9 Locate any additional tools, supplies and equipment necessary for the safe and effective completion of the work to the designated Asbestos Work Area.

3.10 Post signs or barrier tape to indicate asbestos hazard and requirement for protective clothing for anyone entering the space.

3.11 Do not proceed with any asbestos disturbance until the Asbestos Programs Officer or Designated Inspection Agency has reviewed the area and his/her subsequent authorization to proceed is granted.

4.0 EXECUTION

4.1 Asbestos Removal, Clean-up or Ceiling Entry

4.1.1 Thoroughly wet asbestos-containing materials to be removed both prior to and throughout the removal process, ceiling tiles excepted.

4.1.2 Remove dust and loose friable material likely to be disturbed in the process of doing the work, with a HEPA vacuum or by damp wiping.

4.1.3 To remove mechanical insulation, first wet any area of damage, then carefully cut exterior jacket. Keep exposed surface of insulation wet. Remove insulation in large sections and place immediately in disposal bag. After all large pieces have been removed, saturate debris on mechanical equipment and clean all exposed surfaces with abrasive pads, sponges, cloths, etc..

4.1.4 Remove ceiling tiles required to complete work by carefully removing first tile and vacuum while still in a horizontal position. Vacuum other tiles to be removed while still in place and prior to removing from grid. Do not break tiles or allow them to drop to the floor.

4.1.5 Ensure complete saturation of spray or trowel applied materials before removal. Place materials removed directly into a waste container. Do not allow scrapped materials or debris to fall to the floor.

4.1.6 When asbestos material is removed, all pieces should be placed directly into an approved asbestos waste receptacle as each piece is removed. Avoid dropping material to floor wherever possible. After bulk removal is complete, brush clean completely, and wet wash the exposed surface.

4.1.7 Frequently, and at regular intervals during the work, clean-up dust, waste materials and debris throughout the work area by wet mopping or by HEPA vacuuming.
PROCEDURES FOR TYPE 2 OR MODERATE RISK WORK

4.1.8 After the completion of any mechanical insulation removal, seal exposed ends of insulation with heavy coating of encapsulant.

4.1.9 At completion of work, decontaminate work enclosure, any equipment, tools and materials used in the work area by wet cleaning or HEPA vacuum.

4.1.10 Apply a generous coating of lock-down agent (sealer) to surfaces from which any asbestos material was removed and to any polyethylene.

4.1.11 Where ceiling tiles were removed to facilitate work in the ceiling space above, re-establish such tiles before exiting the work enclosure.

4.1.12 Do not dismantle the work enclosure until after the Asbestos Programs Officer or Designated Inspection Agency has reviewed the area and his/her subsequent authorization to proceed is granted.

4.2 Repair of Damaged Asbestos-Containing Mechanical Insulation

4.2.1 A sealed work enclosure is not required for areas where repair of mechanical insulation alone is to be performed. Floor and equipment in the vicinity of work must however be covered with polyethylene drop sheets prior to commencement of repairs. Size of drop sheet to be sufficient to catch any debris during repairs - minimum width 5 feet (1.5 m).

4.2.2 Spray surface of insulation to be repaired and adjacent material with amended water to reduce dust generation prior to patching or repair.

4.2.3 Saturate fully all material that must be removed to accommodate installation of patch or repairs and place directly into asbestos waste container for disposal. Do not allow material removed to fall to the floor.

4.2.4 Repair insulation using eight (8) oz. canvas pasted with lagging and overcoat of flame resistant coating.

4.2.5 Extend new canvas finish 12" (300 mm) either side of damaged area.

4.2.6 Paint repaired areas to match existing finishes.

4.2.7 HEPA vacuum fallen ACM, settled dust, etc., from surfaces throughout the Asbestos Work Area prior to and throughout the course of the work.

4.2.8 Proceed with the dismantlement of any barricades only after the Asbestos Programs Officer or Designated Inspection Agency has reviewed the area and his/her subsequent authorization to proceed is granted.

4.3 Removal of Sheet Flooring

4.3.1 Remove binding strips or other restrictive mouldings.

4.3.2 Make series of cuts 100 to 200 mm (4" to 8") apart through top layers and about halfway through felt backing, parallel to wall.

4.3.3 Pry up corner of a strip at end of room furthest from access to work area.

4.3.4 Pull sheet back upon itself along with any adhering felt backing which remains adhered to top layers.

4.3.5 Roll strip face out into tight roll, tape or tie, and place into asbestos waste container.

4.3.6 Remove maximum of three (3) strips before wet scraping residual exposed felt underlay.
4.3.7 Remove remaining adhered underlay by wet scraping as follows:

   .1 Soak area with water applied by sprayer.
   .2 Allow water to penetrate felt.
   .3 Scrape off remaining material.
   .4 Place scrapings in asbestos waste container.
   .5 Allow floor to dry. Clean with HEPA vacuum.

4.3.8 Treat all materials removed as ACM and dispose of as such. If materials or equipment removed to access sheet flooring are to be re-used, wet clean or vacuum.

4.3.9 Wet clean entire enclosure, including equipment, floor and wall surfaces, mechanical equipment and similar items not covered with polyethylene sheeting.

4.3.10 Apply coat of sealer to surface of floor and to any surfaces covered by polyethylene.

4.3.11 Do not dismantle the work enclosure until after the final air clearance results are made available and the Asbestos Programs Officer or Designated Inspection Agency has reviewed the area and his/her subsequent authorization to proceed is granted.

4.4 Site Dismantlement & Clean-up

4.4.1 Carefully roll polyethylene inward onto itself. As polyethylene is rolled away from underlying finishes, immediately remove any visible debris using a HEPA vacuum or damp cloth.

4.4.2 Place polyethylene, tape, cleaning material, clothing and other contaminated waste in approved waste receptacle and dispose of as asbestos waste.

4.4.3 Equipment used in contaminated Asbestos Work Area shall be washed to remove any visible signs of asbestos contamination.

4.4.4 Dismantle and remove from the area, temporary framework used to support polyethylene.

4.4.5 Immediately upon shutdown of negative air unit(s), seal air inlet grill and exhaust vent with polyethylene and tape. Dispose of unit pre and intermediate filters as asbestos contaminated waste.

4.4.6 Seal vacuum hoses and fittings, flexible ductwork and any tools unable to be properly cleaned in a polyethylene bag prior to removal from work area.

4.4.7 Vacuum and/or wash and mop with clean water all floor surfaces throughout the work area.
CHECKLIST FOR TYPE 2
OR MODERATE RISK WORK
Checklist for Type 2 or Moderate Risk Work

The following checklist should be used to ensure all requirements as set forth by the AMP document for Type 2 or Moderate Risk work have been complied with before, during and following any asbestos disturbance.

☑ The required “Asbestos Work Permit” has been obtained from the Asbestos Programs Officer.

☑ Arrangements have been made with the Asbestos Programs Officer and/or Designated Inspection Agency to complete any required site inspections or air monitoring during the abatement process.

☑ All non-essential equipment and personnel have been removed from the established work area.

☑ The area affected by the work has been isolated from adjoining areas of the building and the required signage has been posted identifying the site as an “Asbestos Work Area”.

☑ Adjoining surfaces and equipment (excluding sheet flooring) have been covered with a polyethylene drop cloth.

☑ Personal protective equipment (i.e. disposable coveralls, respirators, etc.) has been provided to all workers.

☑ Required tools, equipment and waste receptacles have been located within the established work area.

☑ HVAC systems, vents and diffusers within the Asbestos Work Area have been shutdown or otherwise isolated.

☑ Suitable wash facilities have been located immediately adjacent to or near the established work area.

☑ Written authorization to proceed with the contaminated phase of the work has been received from the Asbestos Programs Officer and/or Designated Inspection Agency.

☑ Non-asbestos dust on surfaces likely to be disturbed has been pre-cleaned using a HEPA vacuum or damp cloth.

☑ Wet all asbestos-containing materials to be disturbed.

☑ Maintain established work area free of accumulated waste, dust or debris. All material removed shall be placed directly into approved and labelled asbestos waste receptacles as the work progresses.

☑ Drop sheets that will be re-used have been cleaned or placed within a sealed and labelled polyethylene bag.

☑ The work area has been final cleaned to remove any visible trace of dust or debris.

☑ Continue to restrict access to the work area and maintain sealed work enclosure and/or barricades in place until the Asbestos Programs Officer or Designated Inspection Agency has reviewed the area and his/her subsequent authorization to proceed is granted.

☑ An “Asbestos Work Report” has been filed with the Asbestos Programs Officer detailing the extent of asbestos work completed and the location of any remaining asbestos-containing materials.