

**CANADIAN ASBESTOS**  
**ONE KILLER EXPORT**



# Asbestos

**Elevator Industry**

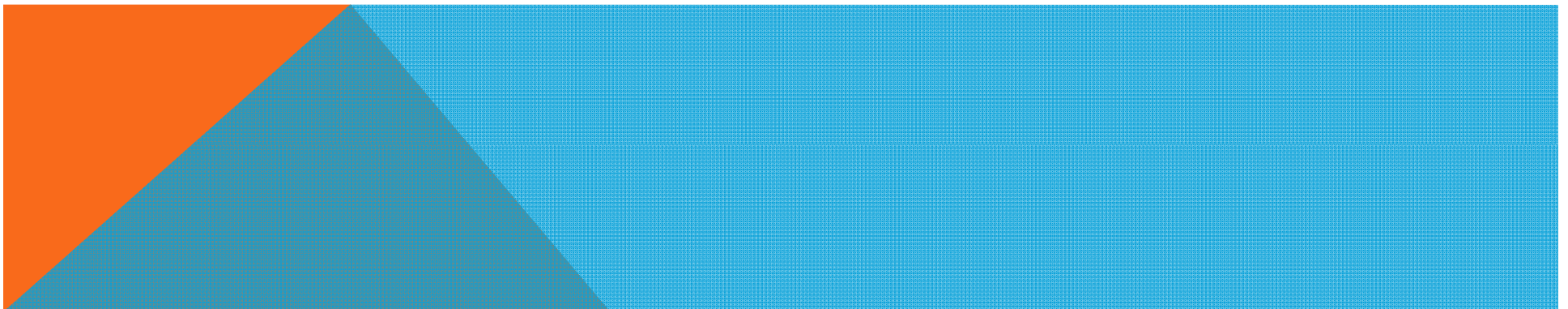
**Workshop**

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## BOB SWING CONTACT INFO

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# SOME ASBESTOS-CONTAINING MATERIALS

- Cement Pipes
  - Cement Wallboard
  - Cement Siding
  - Asphalt Floor Tile
  - Vinyl Sheet Flooring
  - Flooring Backing
  - Construction Mastics (floor tile, carpet, ceiling tile, etc.)
  - Acoustical Plaster
  - Decorative Plaster
  - Textured Paints/Coatings
  - Ceiling Tiles and Lay-in Panels
  - Spray-Applied Insulation
  - Blown-in Insulation
  - Fireproofing Materials
  - Taping Compounds (thermal)
  - Packing Materials (for wall/floor penetrations)
  - High Temperature Gaskets
  - Laboratory Hoods/Table Tops
  - Laboratory Gloves
  - Fire Blankets
  - Fire Curtains
  - Vinyl Floor Tile
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# SOME ASBESTOS-CONTAINING MATERIALS

(Continued)

- Elevator Equipment Panels
  - Elevator Brake Shoes
  - HVAC Duct Insulation
  - Boiler Insulation
  - Breaching Insulation
  - Ductwork Flexible Fabric Connections
  - Pipe Insulation (corrugated air-cell, block, etc.)
  - Heating and Electrical Ducts
  - Electrical Panel Partitions
  - Electrical Cloth
  - Electric Wiring Insulation
  - Chalkboards
  - Roofing Shingles
  - Roofing Felt
  - Base Flashing
  - Thermal Paper Products
  - Fire Doors
  - Caulking/Putties
  - Adhesives
  - Wallboard
  - Joint Compounds
  - Vinyl Wall Coverings
  - Spackling Compounds
  - Cooling Towers
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# CONSTRUCTION/MAINTENANCE ACTIVITIES

To avoid a situation illustrated in the photo below, the regulations cover any construction or maintenance activity releasing or likely to release asbestos fibers into the air including:



- Renovation
- Remodeling
- Demolition

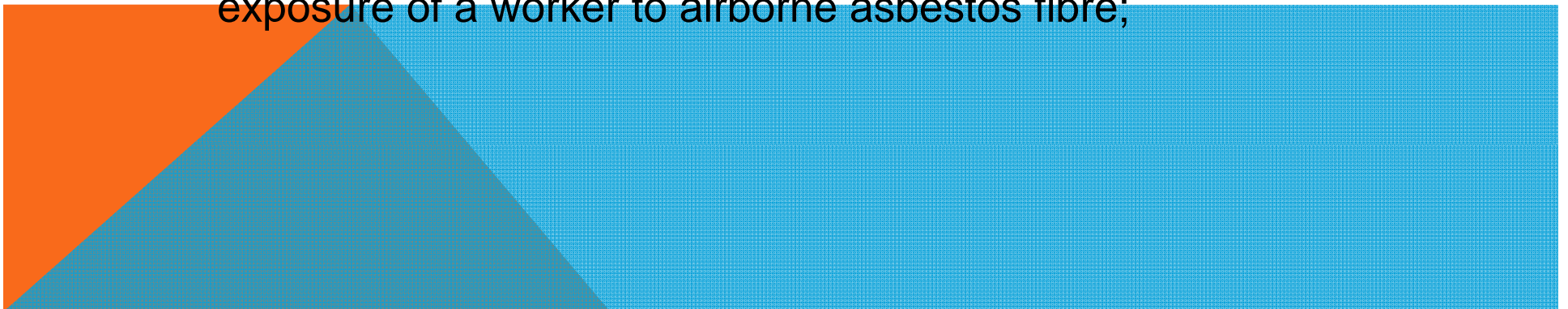
Covers work done in:

- buildings
- structures
- mechanical piping equipment and systems
- ships
- other facilities

# UNDERSTANDING REGULATION

**"low risk work activity"** means a work activity that involves working with or in proximity to asbestos-containing material if, at the time the work activity is being carried out, both of the following apply:

- (a) the asbestos-containing material is not being
  - (i) cut, sanded, drilled, broken, ground down or otherwise fragmented, or
  - (ii) disturbed such that the asbestos-containing material may release airborne asbestos fibre;
- (b) it is not necessary to use personal protective equipment or engineering controls in respect of that activity to prevent exposure of a worker to airborne asbestos fibre;



# UNDERSTANDING REGULATION

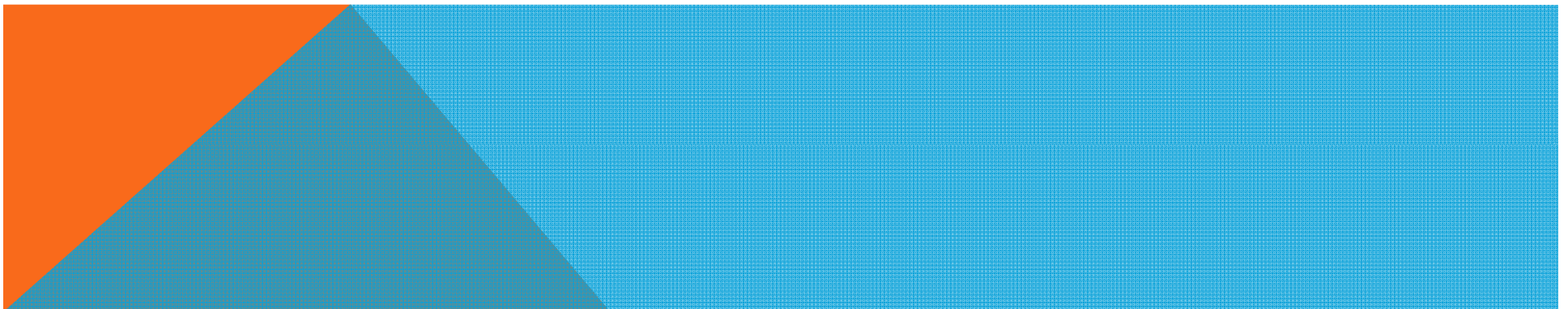
**"moderate risk work activity"** means a work activity, other than a high risk work activity, that involves working with or in proximity to asbestos-containing material if, at the time the work activity is being carried out, one or both of the following apply:

- (a) the asbestos-containing material is being
  - (i) cut, sanded, drilled, broken, ground down or otherwise fragmented, or
  - (ii) disturbed such that the asbestos-containing material may release airborne asbestos fibre;
- (b) it is necessary to use personal protective equipment or engineering controls, or both, in respect of that activity to prevent exposure of a worker to airborne asbestos fibre;

# UNDERSTANDING REGULATION

**"friable asbestos-containing material"** means asbestos-containing material that is crumbled or powdered or can be crumbled or powdered by hand pressure;

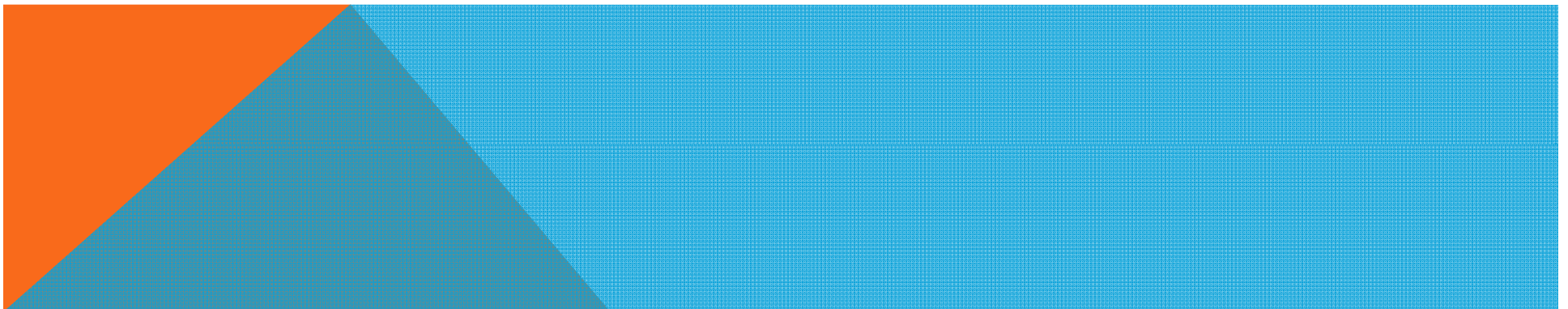
**"high risk work activity"** means a work activity that involves working with or in proximity to asbestos-containing material if a high level of control is necessary in respect of that activity to prevent exposure of a worker to airborne asbestos fibre;





# EXPOSURE CONTROL PLANS

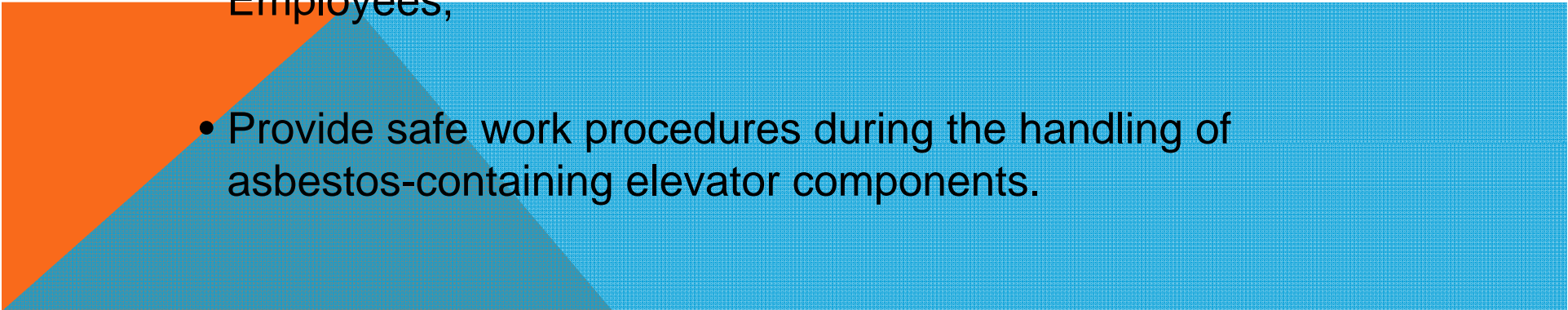
- Purpose, scope and responsibilities
- Risk identification, assessment and control
- Education and training
- Work procedures
- Hygiene and worker decontamination
- Health monitoring
- Documentation
- Hazardous waste disposal
- Program maintenance and review



# PURPOSE, SCOPE & RESPONSIBILITY

## Purpose

The purpose of an Exposure Control Plan (ECP) is to minimize as much as practically feasible, potential hazards to employees that may be associated with asbestos exposures. The objectives of this document are to

- Establish a safe work environment for employees who may be exposed to asbestos in the workplace,
  - Outline the responsibilities and duties of Employers, Exposure Control Plan Administrator, Supervisors and Employees,
  - Provide safe work procedures during the handling of asbestos-containing elevator components.
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# PURPOSE, SCOPE & RESPONSIBILITY

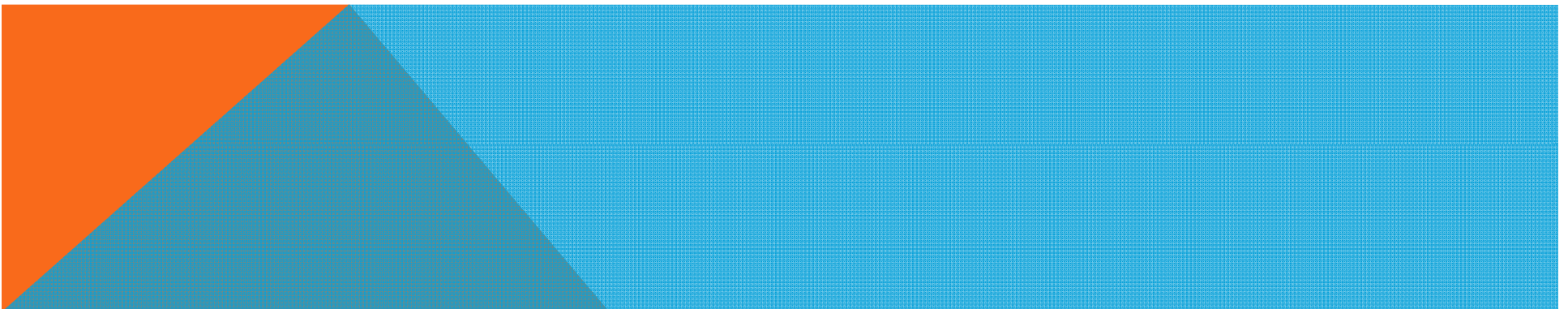
## Scope

The program applies to all employees who may be exposed to asbestos during elevator maintenance activities. The scope of this program is limited to activities characterized as “low risk” or “moderate risk” activities that involve working in proximity to or disturbance of the following potentially asbestos-containing materials:

- Elevator specific materials including but not limited to:
  - limit control switches;
  - electrical wiring;
  - resistor banks;
  - brake pads;
  - cement board;
  - blowout coils,
  - elevator cab roof-coating materials; and
  - elevator door core materials.

# PURPOSE, SCOPE & RESPONSIBILITY

- Responsibilities Employer
- ECP Program Administrator
- Supervisor
- Employees

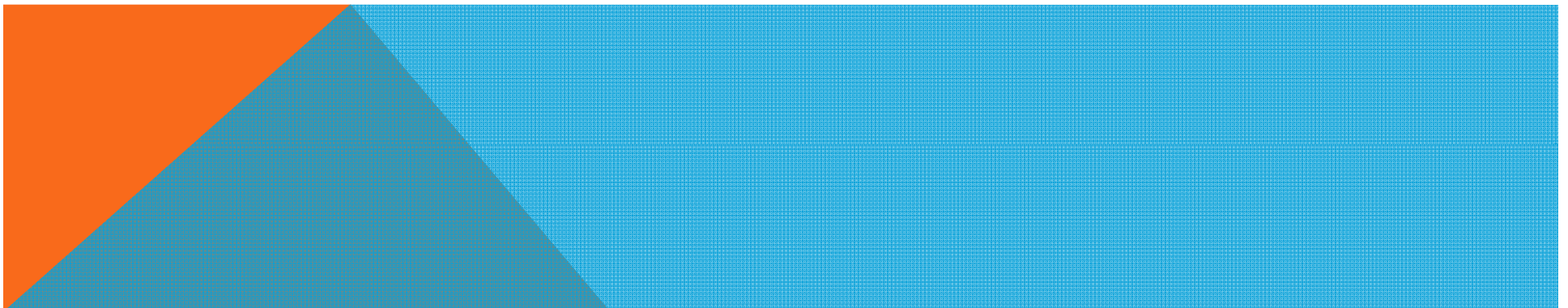


# RISK IDENTIFICATION, ASSESSMENT & CONTROL

A risk assessment addresses some generic components of  
“WORK” :

Some examples:

- Limit switches
- Control panels
- Electrical wiring
- Resistor banks
- Brakes
- Doors
- Floor tiles



# EDUCATION AND TRAINING

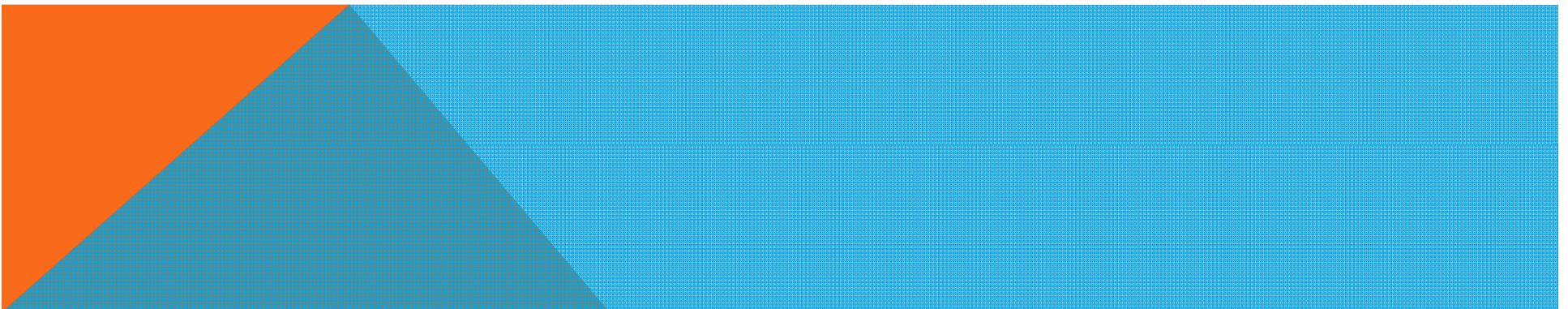
All employees and supervisors who work with asbestos must be trained in the hazards of asbestos and the implemented control measures required eliminating or minimizing their potential exposures during their work activities.

Topics covered include:

- Background and health effects;
- Asbestos materials typically encountered in buildings and elevators;
- WorkSafe BC Occupational Health and Safety Regulations;
- Work Classifications (low risk and moderate risk);
- Elements of the ECP:
  - Responsibilities;
  - Risk identification and assessment;
  - Personal Protective Equipment;
  - Low/Moderate Risk Procedures;
  - Decontamination and Hygiene Procedures
  - ACM Waste disposal

# WORK PROCEDURES

- Utilize risk identification, assessment and control processes
- Worker tasks are already defined
- Worker training is identified
- PPE and Equipment is available
- Write the individual procedures by risk group-low and then moderate



# HAZARDOUS WASTE DISPOSAL

The BC Ministry of Environment (MOE) governs the disposal of asbestos-containing materials at approved landfill sites. The Hazardous Waste Regulation governs all aspects of managing these wastes (handling, transportation, storage, treatment and disposal).

Retaining the services of an asbestos abatement contractor to handle disposal of items removed or arrange for the building owner to handle the disposal of hazardous waste needs consideration.

Key points of hazardous waste requirements include:

- Asbestos waste must be double bagged and labelled for disposal;
- Non-friable asbestos waste that is not mixed with any other hazardous materials may be transported and disposed of at any authorized landfill, with the exception of gypsum drywall containing asbestos which is not accepted at most local landfills; and

A waste manifest is required for loads containing asbestos from commercial sources.



CONCLUSIONS

QUESTIONS?

