

PART 33

DEMOLITION WORK

Application

33.1 This Part applies to every workplace where demolition work takes place.

Safe work procedures

33.2 An employer carrying out demolition work must

- (a) develop and implement safe work procedures for demolition work;
- (b) ensure that workers involved in demolition work are trained in those safe work procedures; and
- (c) ensure that workers involved in demolition work comply with those safe work procedures.

Employer's general obligation re demolition work

33.3 An employer must ensure that the demolition work is

- (a) carried out in accordance with CSA Standard S350-M1980 (R2003), *Code of Practice for Safety in Demolition of Structures*;
- (b) conducted in such a way as to ensure that, so far as is reasonably practicable, workers and other persons are not exposed to risks to their safety or health in connection with the demolition work;
- (c) subject to sections 33.8 and 33.9, carried out in the reverse order of erection of the building or structure; and
- (d) performed floor by floor from the top downward, if a worker is or may be present in the building or structure during its demolition.

Employer's obligation before demolition begins

33.4(1) An employer must ensure that before demolition work begins,

(a) the following are removed from the building or structure, or part of the building or structure, being demolished:

- (i) glass, metal cornices or other material that may shatter,

(ii) hazardous substances, including asbestos,

(iii) any tanks, wells, piping systems, flammable or explosive materials or gas cylinders;

(b) where anything mentioned in

(i) subclause (a)(ii) cannot be removed, it is subjected to control measures in accordance with Part 36 (Chemical and Biological Substances) and Part 37 (Asbestos), and

(ii) subclause (a)(iii) cannot be removed, it is made safe;

(c) authorization from the authority having jurisdiction has been obtained to disconnect any utility or service at the demolition site, the utility or service has been disconnected, and written confirmation of the authorized disconnection is available at the demolition site; and

(d) the demolition site is

(i) free of unauthorized persons, and

(ii) appropriately barricaded to prevent access by unauthorized persons.

33.4(2) An employer must ensure that a competent person

(a) inspects the demolition site and confirms that subsection (1) has been complied with before proceeding with demolition work; and

(b) supervises the demolition work at all times when demolition work is in progress.

Notice to owners of affected property

33.5 An employer must

(a) provide notice in writing of the intended demolition work to the owner of any building, structure or property connected or adjacent to the demolition site, or that may be affected by the demolition; and

(b) ensure that the owner has adequate time to ensure the safety of any persons in the building or structure or on the property.

Stability of adjoining building or structure

33.6(1) When a building or structure adjoins the demolition site and the demolition work may affect its stability, an employer must ensure that the demolition work is carried out in accordance with procedures, as certified by a professional engineer, that safeguard the stability of the adjoining building or structure.

33.6(2) An employer must ensure that a copy of the procedures certified by the professional engineer is kept at the demolition site at all times when demolition work is in progress.

Ventilation, loads, removal of debris and chutes

33.7(1) When carrying out demolition work, an employer must ensure that

(a) adequate ventilation is provided for a machine powered by an internal combustion engine that operates in an enclosed area;

(b) every floor, roof or other surface is of sufficient strength to safely support any of the following loads:

(i) the load of a worker who is required or permitted to be on it,

(ii) the load of any equipment, including powered mobile equipment, placed on it;

(c) material or debris is removed promptly and is not allowed to accumulate

(i) in an area that might result in the collapse of all or part of the building or structure due to overloading, or

(ii) on the ground immediately outside of the building or structure being demolished; and

(d) unless it is being demolished at the time, no wall or other part of the building or structure is left unstable or in danger of collapsing.

33.7(2) When demolishing a structure, an employer must provide a chute for use in removing debris and dust if the dropping debris or dust creates a risk to the safety or health of a worker or any other person.

33.7(3) An employer must ensure that a chute provided under subsection (2)

(a) is properly secured;

(b) has all of its openings adequately guarded;

(c) has placed adjacent to its outlet, in a conspicuous location, a clearly visible and legible sign bearing the wording "DANGER, NO ENTRY" in a minimum of 5 cm letters; and

(d) empties into an area that is appropriately barricaded to prevent access by any person.

33.7(4) An employer must ensure that

(a) workers and equipment are located clear of any falling material or debris; and

(b) without limiting clause (a), a floor opening is adequately covered to prevent material from falling below, if

(i) a wall that is within 3 m of the opening is being demolished, and

(ii) there is a risk to the safety or health of a worker.

Demolition by explosives

33.8 When an explosive is to be used to carry out the demolition work, an employer must ensure that

(a) a competent person develops a demolition procedure to protect the safety and health of workers; and

(b) the worker who uses the explosives does so in accordance with the requirements of Part 34 (Explosives).

Demolition by pushing or pulling

33.9(1) An employer must ensure that

(a) when a part of a building or structure is demolished by pushing, the point at which the force is applied is located

(i) at least two-thirds up the height of the part, measured from the base of the part being pushed, or

(ii) at the point specified by a professional engineer; and

(b) when a part of a building or structure is demolished by pulling,

(i) the horizontal distance from the machine used for the pulling to the face of the part being pulled is at least 20% greater than the height of the part, and

(ii) no person stands between the machine and the building or structure.

33.9(2) When carrying out demolition work, an employer must ensure that no crane boom is used for pushing or pulling a building or structure.

Presence of pre-stressed concrete parts

33.10 An employer must

(a) determine whether pre-stressed or post-tension concrete parts are present in the building or structure being demolished; and

(b) if present, ensure those parts are demolished in accordance with the specifications of a professional engineer.

Structural members

33.11 If structural members are present in the building or structure being demolished, an employer must ensure that each member that is being removed is

(a) not placed under any stress other than its own weight; and

(b) secured or supported to prevent it from dropping or swinging uncontrollably.