

## PART 24

### PILE DRIVING

#### **Application**

**24.1** This Part applies to every workplace where piles are driven into, or removed from, the ground.

#### **Safe work procedures**

**24.2** An employer must

- (a) develop and implement safe work procedures respecting the use of pile driving equipment;
- (b) train workers in the safe work procedures; and
- (c) ensure that workers comply with the safe work procedures.

#### **Pile hoisting**

**24.3** An employer must ensure that

- (a) no worker operating pile driving equipment hoists piles in the leads when a worker who is not directly involved in the pile driving operation
  - (i) is on the superstructure of the pile driving equipment, or
  - (ii) within range of the pile if it falls; and
- (b) no worker
  - (i) remains or rides on a load or part of a load being moved, raised or lowered by pile driving equipment, or
  - (ii) is on the superstructure of the pile driving equipment or within range of a pile if it falls, if the worker is not directly involved in the pile hoisting.

#### **Ladder systems**

**24.4(1)** An employer must provide an appropriate ladder system for use by a worker who is required or permitted to climb on a lead.

**24.4(2)** A worker must use the ladder system when one is provided.

#### **Support of piles and sheet-piles**

**24.5** An employer must ensure that piles and sheet-piles are adequately supported to prevent their uncontrolled movement while they are being hoisted, placed, cut, removed or withdrawn.

#### **Rigging suspended pile hammer**

**24.6** An employer must ensure that a pile hammer that is suspended by the hammer line is securely rigged when the equipment is not operating.

#### **Pile driving**

**24.7** An employer must ensure that

(a) workers in the area of a pile being struck by a pile driver are protected from any risk to their safety or health that may result from the pile shattering;

(b) before piles are placed in position for driving, pile heads are trimmed to fit the follower on the pile-driving cap and are free of debris;

(c) a follower or pile-driving cap is of a size and type suitable for the type of piling to be driven.

#### **Extraction of piles**

**24.8** An employer must ensure that a pile may only be extracted by the use of a device approved by a professional engineer.

#### **Crane boom inspection**

**24.9(1)** An employer must ensure that a crane boom used for driving piles with a vibratory hammer is inspected and certified by a professional engineer as safe for continued use

(a) at intervals of not more than 600 operating hours while it is in use; and

(b) when not in use, before being returned to hoisting service.

**24.9(2)** An employer must ensure that a crane boom with a vibratory pile extractor is inspected and certified by a professional engineer as safe for continued use

(a) at intervals of not more than 200 operating hours while it is in use; and

(b) when not in use, before being returned to hoisting service.

**24.9(3)** An employer must ensure that a crane boom used for dynamic compaction is inspected and certified by a professional engineer as safe for continued use

- (a) at intervals of not more than 200 operating hours while it is in use; and
- (b) before it is returned to hoisting service.

**Definitions**

**24.10** The following definitions apply in this Part.

**"lead"** means a wood or steel frame with one or two parallel members for guiding the hammer or piles in the correct alignment.

**"pile"** means a slender deep foundation unit made of materials or a combination of materials such as wood, steel or concrete, which is pre-manufactured and placed by driving, jacking or screwing.