

Electricity and energy safety essentials

4

Overhead lines

Eliminate

Have the power turned off

- Use the right plant short boom diggers, bottom dumpers and so
- Adopt a different methodology to avoid the hazard

Stay
4m
away

Isolate

Insulating sleeves on lines

- Proximity sensors and alarms on plant
- Mechanical height limiters chains, hydraulic or electronic alarms
- Delineated safe work areas on larger sites

Minimise

- Site planning by engineer before starting work
- Close approach permit from network owner or agent if working closer than 4m from all lines
- Risk action plan followed
- Spotters have direct communications with operators

# High-risk activities

- Excavators
- Chip sealing
- Cranes
- Metal spreading
- Signs maintenance
- Oversize loads



2.2 metres

4 metres

5 metres

#### **Structures**

Conductive
structures should
not be built within
2.2m of any
conductive pole or
a high voltage line
(1kV-50kV), and
structures must not
be attached to any
conductive pole.

# Construction

No building or similar structure may be erected closer than 2.2m to a pole or stay wire (11kV-33kV), or within 2m of the line support structure, without a close approach permit.

Distances to be measured from closest visible edge of pole foundation to the nearest part of the building.

# Minimum approach distances

The distance between any live overhead electric line and any mobile plant or load carried must be at least 4m, unless you have a close approach permit.

### Any works

A close approach permit is required for excavation or interference with any land near a pole or stay wire, where the work creates an unstable batter.

**Ground level** 

0.3m below ground level

0.75m below ground level

## Any works

A close approach permit is required for excavation or interference with any land deeper than 0.3m, within 2.2m or any pole or stay wire, or any underground electric cable.

### Any works

A close approach permit is required for excavation or interference with any land deeper than 0.75m, between 2.2m and 5m of a pole or stay wire.