Title | Construct transmission tower foundations
---|---
Level | 4
Credits | 10

Purpose
People credited with this unit standard are able to: plan work and lay out site for transmission tower foundation construction; excavate transmission tower foundation holes; prepare transmission tower formwork and place reinforcing; place and set tower holding components; place transmission tower foundation concrete; reinstate tower foundation site; and report transmission tower foundation construction work.

Classification
Electricity Supply > Electricity Supply - Transmission Networks

Available grade
Achieved

Prerequisites
Unit 10507, Use personal protection equipment within an electricity network environment, or demonstrate equivalent knowledge and skills.

Guidance Information
1 This unit standard is intended for, but not restricted to, workplace assessment. The range statements across the unit standard can be applied according to industry specific equipment, procedures, and processes.

2 Safety of personnel and plant must be a priority throughout the assessment. If the safety requirements are not met the assessment must stop.

3 Performance and work practices in relation to the outcomes and performance criteria must comply with all current legislation, especially the Electricity Act 1992, and any regulations and codes of practice recognised under that statute; the Health and Safety at Work Act 2015; and the Resource Management Act 1991. Electricity supply industry codes of practice and documented industry procedures include the Safety Manual – Electricity Industry (SM-EI) Wellington: Electricity Engineers’ Association. A full list of current legislation and industry codes is available from Connexis Infrastructure ITO.

4 The phrase in accordance with industry requirements is implicit in all outcomes and performance criteria in this unit standard.

5 Industry requirements include all asset owner requirements; manufacturers’ specifications; and enterprise requirements which cover the documented workplace policies, procedures, specifications, and business and quality management requirements relevant to the workplace in which assessment is carried out.
Outcomes and performance criteria

Outcome 1

Plan work and lay out site for transmission tower foundation construction.

Performance criteria

1.1 Work is planned.
1.2 Site is laid out.

Outcome 2

Excavate transmission tower foundation holes.

Performance criteria

2.1 Holes are excavated and prepared.
Range blasting, digging, drilling, shoring.
2.2 Reinforcing is prepared.
Range cut, bend, tie, weld.

Outcome 3

Prepare transmission tower formwork and place reinforcing.

Performance criteria

3.1 Formwork is positioned.
Range moulds, setting jigs, templates.
3.2 Reinforcing is installed.

Outcome 4

Place and set tower holding components.

Performance criteria

4.1 Tower holding components are assembled.
Range bolt cages, stubs.
4.2 Tower holding components are placed.
Outcome 5

Place transmission tower foundation concrete.

Performance criteria

5.1 Concrete is placed.
   Range direct from rotating barrel, pump, hopper-crane, helicopter.

5.2 Concrete samples are taken and proven.

5.3 Concrete is finished.

Outcome 6

Reinstate tower foundation site.

Performance criteria

6.1 Formwork and debris are removed.

6.2 Site is reinstated.

Outcome 7

Report transmission tower foundation construction work.

Performance criteria

7.1 Work is reported and recorded as built.

7.2 Existing records are updated.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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Consent and Moderation Requirements (CMR) reference 0120

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.