Title | Replace transmission tower and tower cross arms
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Level | 4 | Credits | 12

**Purpose**
People credited with this unit standard are able to: prepare to replace transmission tower and tower cross arms; establish work site to replace transmission tower and tower cross arms; replace transmission tower; replace transmission tower cross arms; reinstate work site; and report on replacement work.

**Classification**
Electricity Supply > Electricity Supply - Transmission Networks

**Available grade**
Achieved

**Prerequisites**
Unit 24747, Install and replace insulators and fittings; and Unit 24748, Erect electricity transmission towers; 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.


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.
6 This unit standard excludes high voltage maintenance using live line working procedures.

Outcomes and performance criteria

Outcome 1
Prepare to replace transmission tower and tower cross arms.

Performance criteria
1.1 Scope of work is interpreted.
1.2 Site access is arranged.
   Range includes but is not limited to — access permits, work authority, landowner authority.

Outcome 2
Establish work site to replace transmission tower and tower cross arms.

Performance criteria
2.1 Safe working zone is established in accordance with all statutes.
2.2 Work site is set up.
   Range may include but is not limited to — barrier, fence, defined access control point, signage, hazard identification.
2.3 Plant and equipment are positioned.
   Range ground-based, tower-based, helicopter-based.

Outcome 3
Replace transmission tower.

Performance criteria
3.1 Conductors and hardware are removed.
3.2 Existing tower is dismantled.
3.3 Replacement tower is assembled and erected.
3.4 Conductors and hardware are replaced.

Outcome 4
Replace transmission tower cross arms.
Performance criteria

4.1 Existing conductors are displaced with mechanical load supported.
4.2 Existing cross arms are removed.
4.3 Replacement cross arms are assembled and attached to tower.

Outcome 5

Reinstate work site.

Performance criteria

5.1 Work site is reinstated in accordance with landowner and asset owner requirements.
5.2 Debris and rubbish are removed from site.

Outcome 6

Report on replacement work.

Range includes but is not limited to – electric line history, test reports and results, service report, work report.

Performance criteria

6.1 Recorded information is complete, concise, and legible.
6.2 Information is recorded in the correct format and filed in the correct location.
6.3 Hardware replacements and repairs are recorded.
6.4 Tower structure repairs are recorded.

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

Status information and last date for assessment for superseded versions

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