



**Australian Government**

# **UET30521 Certificate III in ESI - Transmission Overhead**

**Release 1**

# UET30521 Certificate III in ESI - Transmission Overhead

## Modification History

Release 1. This is the first release of this qualification in the UET Transmission, Distribution and Rail Sector Training Package Release 2.0.

## Qualification Description

This qualification provides the skills and knowledge to work in the electricity supply industry (ESI) as an Overhead Transmission Lineworker.

This qualification covers work on transmission overhead powerlines, including the installation, inspection and maintenance of towers, poles, structures, conductors and hardware.

The application of the skills and knowledge described within the units in this qualification may require a licence/registration to practice in the workplace.

Other conditions may also apply under state and territory legislative and regulatory licensing requirements which must be confirmed prior to commencing this qualification.

## Entry Requirements

There are no entry requirements for this qualification

## Packaging Rules

A total of **19 units** comprising:

- **17 core units** listed below; plus
- **2 electives units** from the elective units listed below, of which, 1 elective unit may be selected, with appropriate contextualisation, from a qualification in this or any other endorsed Training Package, provided the selected unit contributes to the vocational outcome of the qualification.

Where imported units are selected, care must be taken to ensure all prerequisite units specified are complied with. Prerequisites attached to any of the units must be obtained and are additional to the number of units required for the qualification.

Where a prerequisite is attached to a unit it is identified by the symbol  $\perp$ .

### Core units

CPCCLDG3001 Licence to perform dogging

CPCCLRG3001 Licence to perform rigging basic level

- └ CPCCLDG3001 Licence to perform dogging
- TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)
- UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0046 Solve problems in single path circuits
- UEECD0046 Solve problems in single path circuits
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UEEEL0020 Solve problems in low voltage a.c. circuits
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEEEL0021 Solve problems in magnetic and electromagnetic devices and
  - └ UEECD0043 Solve problems in direct current circuits
  - or
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UEEEL0021 Solve problems in magnetic and electromagnetic devices
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - and
  - └ UEECD0043 Solve problems in direct current circuits
  - or

- └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
- UETDREL001 Apply environmental requirements
- UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UETDREL005 Work safely in the vicinity of live electrical apparatus
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
- UETDRTO004 Inspect and maintain transmission overhead network
  - └ CPCCLDG3001 Licence to perform dogging
  - └ CPCCLRG3001 Licence to perform rigging basic level
  - └ TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more)
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0044 Solve problems in multiple path circuits
  - └ UEECD0046 Solve problems in single path circuits
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEEEL0020 Solve problems in low voltage a.c. circuits
  - └ UEEEL0021 Solve problems in magnetic and electromagnetic devices
  - └ UETDREL001 Apply environmental requirements
  - └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
  - └ UETDRTO005 Inspect transmission structures, conductors and hardware
  - └ UETDRTO006 Install and maintain transmission conductors
  - └ UETDRTO007 Install and maintain transmission structures and hardware
- UETDRTO005 Inspect transmission structures, conductors and hardware
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

- ☐ UETDREL001 Apply environmental requirements
  - ☐ UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRTO006 Install and maintain transmission conductors
  - ☐ CPCCLRG3001 Licence to perform rigging basic level
  - ☐ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - ☐ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - ☐ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - ☐ UETDREL001 Apply environmental requirements
  - ☐ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - ☐ UETDREL005 Work safely in the vicinity of live electrical apparatus
  - ☐ UETDRTO007 Install and maintain transmission structures and hardware
- UETDRTO007 Install and maintain transmission structures and hardware
  - ☐ CPCCLRG3001 Licence to perform rigging basic level
  - ☐ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - ☐ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - ☐ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - ☐ UETDREL001 Apply environmental requirements
  - ☐ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - ☐ UETDREL005 Work safely in the vicinity of live electrical apparatus

### **Elective Group**

- AHCMOM213 Operate and maintain chainsaws
- AVIW0006 Perform infrastructure inspections using remote operated systems
- CPCCLRG3002 Licence to perform rigging intermediate level
  - ☐ CPCCLRG3001 Licence to perform rigging basic level
- CPCCLRG4001 Licence to perform rigging advanced level

	<ul style="list-style-type: none"><li>└ CPCCLRG3002 Licence to perform rigging intermediate level</li></ul>
ICTWHS202	Work safely in a radio frequency electromagnetic radiation environment
TLILIC0002	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)
TLILIC0003	Licence to operate a forklift truck
TLILIC2016	Licence to drive a heavy rigid vehicle
TLILIC0010	Licence to operate a slewing mobile crane (up to 20 tonnes)
UETDRDO001	<p>Inspect overhead poles, structures and electrical apparatus</p> <ul style="list-style-type: none"><li>└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</li><li>└ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</li><li>└ UETDREL001 Apply environmental requirements</li><li>└ UETDREL005 Work safely in the vicinity of live electrical apparatus</li></ul>
UETDRIS007	<p>Install and maintain distribution overhead conductors and cables</p> <ul style="list-style-type: none"><li>└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</li><li>└ UEECD0019 Fabricate, assemble and dismantle utilities industry components</li><li>└ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications</li><li>└ UETDREL001 Apply environmental requirements</li><li>└ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus</li><li>└ UETDREL005 Work safely in the vicinity of live electrical apparatus</li><li>└ UETDRIS012 Install and maintain poles, structures and hardware</li></ul>
UETDRIS008	<p>Install and maintain electrical apparatus</p> <ul style="list-style-type: none"><li>└ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace</li><li>└ UEECD0019 Fabricate, assemble and dismantle utilities industry components</li><li>└ UEECD0044 Solve problems in multiple path circuits</li></ul>

- └ UEECD0046 Solve problems in single path circuits
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UEEEL0020 Solve problems in low voltage a.c. circuits
  - └ UEEEL0021 Solve problems in magnetic and electromagnetic devices
  - └ UETDREL001 Apply environmental requirements
  - └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus and
  - └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
  - └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable
  - or
  - └ UETDRIS007 Install and maintain overhead conductors and cables
  - └ UETDRIS012 Install and maintain poles, structures and hardware
- UETDRIS012 Install and maintain poles, structures and hardware
- └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UEECD0019 Fabricate, assemble and dismantle utilities industry components
  - └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
  - └ UETDREL001 Apply environmental requirements
  - └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus
  - └ UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRSB001 Perform substation switching operations to a given schedule
- UETDRVC003 Control vegetation for powerline work
- └ AHCMOM213 Operate and maintain chainsaws
  - └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
  - └ UETDREL001 Apply environmental requirements
  - └ UETDREL004 Operate plant and equipment in the vicinity of live

electrical apparatus

└ UETDREL005 Work safely in the vicinity of live electrical apparatus

## Qualification Mapping Information

This qualification replaces and is equivalent to UET30519 Certificate III in ESI – Power Systems – Transmission Overhead

## Links

Companion Volume Implementation Guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>