

# **UET30721 Certificate III in ESI - Rail Traction**

#### **UET30721 Certificate III in ESI - Rail Traction**

### **Modification History**

Release 2. Updated superseded TLI elective units.

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 electrical supply industry (ESI) as a Rail Traction Lineworker.

This qualification covers the installation, maintenance and inspection of overhead poles/structures, conductors, cables and rail traction wiring systems, including associated equipment used in the rail traction industry. It also includes the maintenance of bonds and the operation of rail traction height access equipment.

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 **28 units** of competency comprising:

- 26 core units listed below; plus
- 2 elective 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  $\bot$ .

#### Core units

AHCMOM213 Operate and maintain chainsaws

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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
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

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	∟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
	$\bot$ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UETDRIS007	Install and maintain distribution overhead conductors and cables
	∟UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
	∟UEECD0019 Fabricate, assemble and dismantle utilities industry components
	$\hfill \hfill $
	□ 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
	∟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
	$\hfill \hfill $
	☐ 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
UETDRRT001	Install overhead rail traction configurations

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	∟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
	$\bot$ UETDRIS007 Install and maintain distribution overhead conductors and cables
	∟UETDRIS012 Install and maintain poles, structures and hardware
	∟UETDRRT002 Install overhead traction components and equipment
	∟UETDRRT004 Install traction overhead wiring systems
UETDRRT002	Install overhead traction components and equipment
	∟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
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables

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∟ UETDRIS012 Install and maintain poles, structures and hardware UETDRRT003 Install rail traction bonds ∟ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace ∟ UEECD0019 Fabricate, assemble and dismantle utilities industry components LUEECD0044 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 LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus LUETDREL005 Work safely in the vicinity of live electrical apparatus LUETDRIS007 Install and maintain distribution overhead conductors and cables ∟ UETDRIS012 Install and maintain poles, structures and hardware LUETDRRT002 Install overhead traction components and equipment ∟ UETDRRT004 Install traction overhead wiring systems UETDRRT004 Install traction overhead wiring systems LUEECD0007 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 LUEEEL0020 Solve problems in low voltage a.c. circuits ∟ UEEEL0021 Solve problems in magnetic and electromagnetic devices ∟ UETDREL001 Apply environmental requirements LUETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus LUETDREL005 Work safely in the vicinity of live electrical apparatus

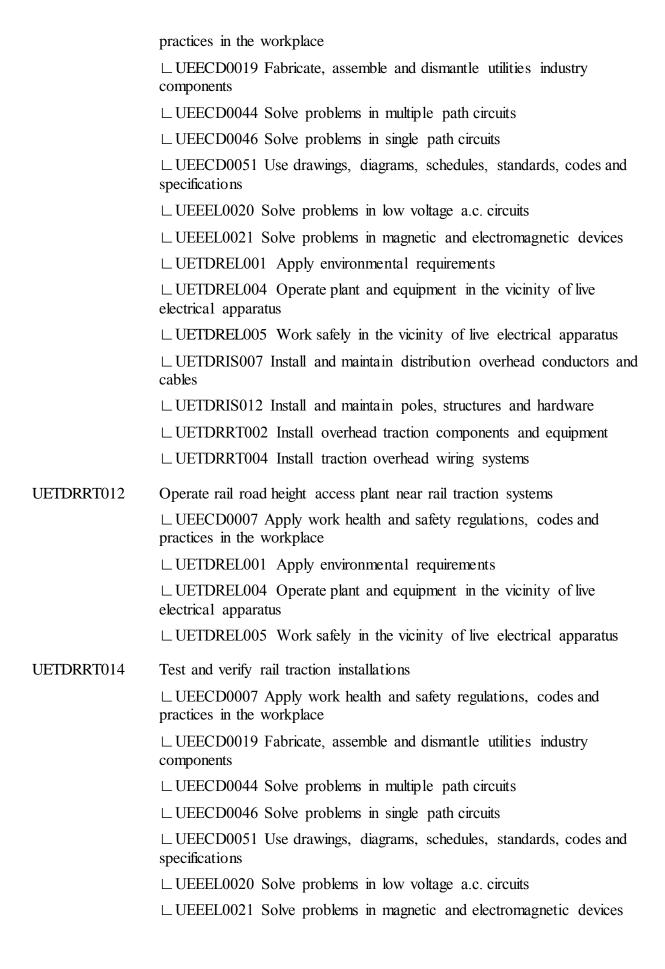
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	☐ UETDRIS007 Install and maintain distribution overhead conductors and cables
	∟UETDRIS012 Install and maintain poles, structures and hardware
	∟UETDRRT002 Install overhead traction components and equipment
UETDRRT008	Maintain overhead rail traction configurations
	∟ 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
	$\  \  \  \  \  \  \  \  \  \  \  \  \  $
	∟ 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
	∟UETDRIS007 Install and maintain distribution overhead conductors and cables
	∟UETDRIS012 Install and maintain poles, structures and hardware
	∟UETDRRT001 Install overhead rail traction configurations
	∟UETDRRT002 Install overhead traction components and equipment
	∟UETDRRT004 Install traction overhead wiring systems
	∟UETDRRT009 Maintain overhead traction components and equipment
	∟UETDRRT011 Maintain traction overhead wiring systems
UETDRRT009	Maintain overhead traction components and equipment
	∟ 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
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	∟ 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
	∟ UETDRIS007 Install and maintain distribution overhead conductors and cables
	∟UETDRIS012 Install and maintain poles, structures and hardware
	∟UETDRRT002 Install overhead traction components and equipment
UETDRRT010	Maintain rail traction bonds
	∟ 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
	∟UETDRIS007 Install and maintain distribution overhead conductors and cables
	∟UETDRIS012 Install and maintain poles, structures and hardware
	∟UETDRRT002 Install overhead traction components and equipment
	∟UETDRRT003 Install rail traction bonds
	∟ UETDRRT004 Install traction overhead wiring systems
	∟UETDRRT009 Maintain overhead traction components and equipment
	∟UETDRRT011 Maintain traction overhead wiring systems
UETDRRT011	Maintain traction overhead wiring systems
	∟ UEECD0007 Apply work health and safety regulations, codes and

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∟ 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
$\  \  \  \  \  \  \  \  \  \  \  \  \  $
∟ UETDRIS012 Install and maintain poles, structures and hardware
∟ UETDRRT001 Install overhead rail traction configurations
∟ UETDRRT002 Install overhead traction components and equipment
∟ UETDRRT003 Install rail traction bonds
∟UETDRRT004 Install traction overhead wiring systems
∟UETDRRT008 Maintain overhead rail traction configurations
∟UETDRRT009 Maintain overhead traction components and equipment
∟ UETDRRT010 Maintain rail traction bonds
∟UETDRRT011 Maintain traction overhead wiring systems
∟ UETDRRT012 Operate rail road height access plant near rail traction systems
Licence to perform rigging intermediate level
□ CPCCLRG3001 Licence to perform rigging basic level
Licence to operate a forklift truck
Licence to operate a slewing mobile crane (up to 20 tonnes)
Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)
Licence to drive a medium rigid vehicle
Electrice to drive a medicini rigid venicle
Licence to drive a heavy rigid vehicle

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LUETDREL002 Comply with environmental requirements

practices in the workplace

non-electrical worker

and

∟ UEECD0007 Apply work health and safety regulations, codes and

LUETDREL006 Work safely in the vicinity of live electrical apparatus as a

Group A

CPCCLRG3002

TLILIC0003

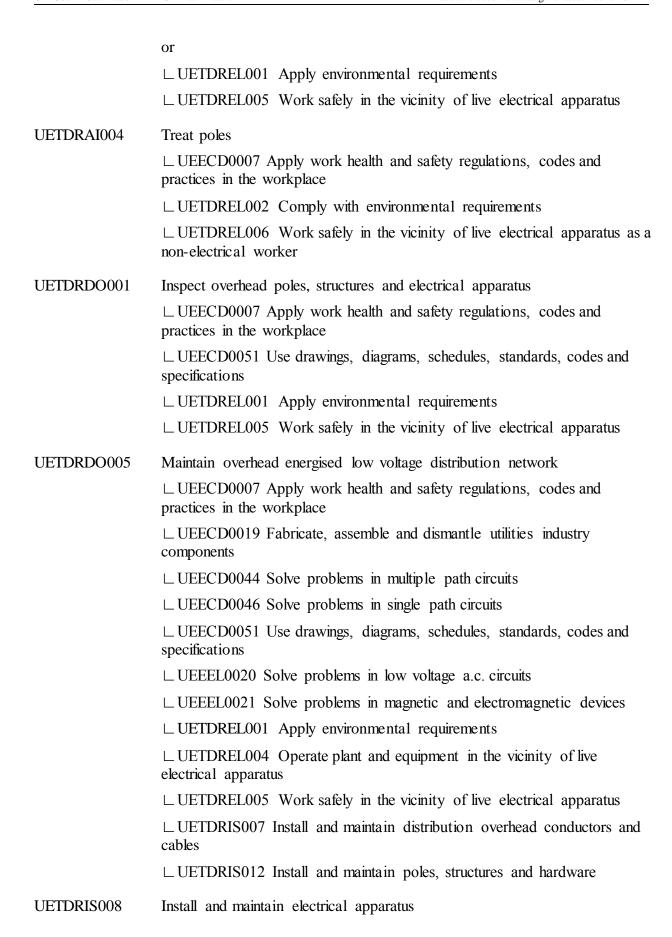
TLILIC0022

TLILIC0024

TLILIC2015

TLILIC2016

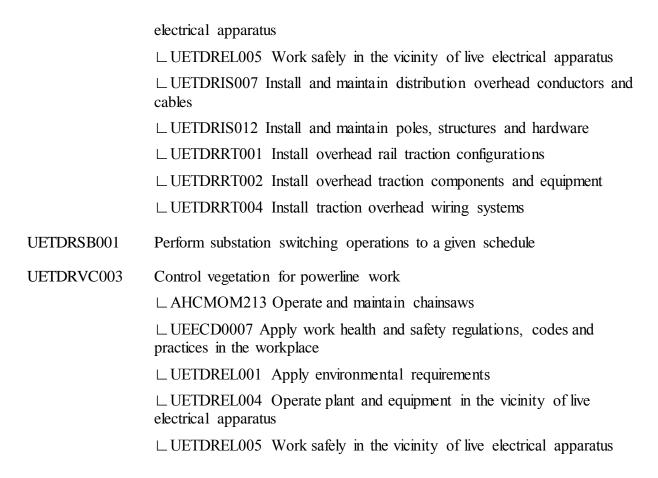
UETDRAI001



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	∟ 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
	and
	∟ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
	∟UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable
	or
	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
	∟UETDRIS012 Install and maintain poles, structures and hardware
UETDRRT013	Perform rail traction switching operations to a given schedule
	∟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
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# **Qualification Mapping Information**

This qualification replaces and is not equivalent to UET30719 Certificate III in ESI – Power Systems – Rail Traction

#### Links

Companion Volume Implementation Guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7

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