

COMPANION VOLUME IMPLEMENTATION GUIDE

UET Transmission, Distribution and Rail
Release 7.0



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About Powering Skills Organisation

Powering Skills Organisation (PSO) is one of ten Jobs and Skills Councils established by the Federal Government to provide industry with a stronger voice. PSO brings together employers, unions and governments in a tripartite arrangement to find solutions to skills and workforce challenges. We ensure Australia's vocational education and training (VET) sector delivers industry led outcomes for learners and employers. PSO works to find solutions to skills and workforce challenges of our diverse stakeholder network, utilising strong collaboration between industry and training providers.

Jobs and Skills Councils have four (4) broad roles:

- Industry Stewardship which involves gathering industry intelligence to reliably represent the views and needs of industry back to the VET system and its decision-makers.
- Workforce Planning which enables industry to identify its workforce development issues and design high-impact solutions, which are then captured in the Committee's national Workforce Plan for the industry.
- Training Product Development which focusses on improving the quality, speed to market and responsiveness of training products to employer and workforce needs.
- Implementation, promotion and monitoring which involves supporting training providers, promoting careers and monitoring how well the system is meeting the needs of industry and learners.

Powering Skills Organisation (PSO) appointed in the Energy, Gas and Renewables sectors. The JSCs initiative is an exciting step towards ensuring Australia's future workforce has the skills that they need for this country's industries to continue to grow rapidly.

One of the four key functions of PSO is training product development. This requires JSCs to develop training products in line with standards set by Skills Ministers to improve the quality, speed to market (where appropriate) and responsiveness of training products. PSO manages four training packages: UEE, UEG, UEP and UET.

UEE - Electrotechnology Training Package

The UEE - Electrotechnology Training Package is a vital component of the VET system. It is tailored to the electrotechnology sector, providing structured learning pathways for individuals aiming to enter or advance within this field. This training package covers a wide array of topics relevant to electrotechnology, including electrical installation, maintenance, renewable energy systems, and energy efficiency practices

UEG - Gas Industry Training Package

The UEG – Gas Industry Training Package serves as the VET package for the gas sector in Australia. This package provides a structured framework for individuals seeking to enter or advance within the gas labour force. It covers a diverse range of topics essential to gas operations, including gas supply, distribution, infrastructure maintenance, safety protocols, and emerging technologies like hydrogen.

UEP - Electricity Supply Industry - Generation Sector Training Package

The Electricity Supply Industry - Generation Sector Training Package is the VET package for those aspiring to work within electricity generation in Australia. This package serves as a roadmap for individuals seeking to enter or advance within the sector, covering a diverse spectrum of topics essential to power generation (including power plant operations, renewable energy integration and emerging technologies).

UET - Transmission, Distribution and Rail Sector

The UET- Transmission, Distribution, and Rail Sector Training Package is tailored to the needs of these critical sectors. It is used by individuals working in and aspiring to work in roles related to electricity transmission, distribution, and rail infrastructure. This training package covers a broad spectrum of topics essential to these sectors, including infrastructure maintenance, safety protocols, technological advancements, and regulatory compliance

PSO is committed to deliver responsive and flexible training products that have high educational standing and can be readily delivered by RTOs, including piloting emerging products and testing new approaches to meet RTO, industry and learners' needs.

Overview Information

This Companion Volume Implementation Guide (CVIG) is designed to assist assessors, trainers, Registered Training Organisations (RTOs) and enterprises in delivering the UET Transmission, Distribution and Rail Sector Training Package.

Nationally endorsed training packages are developed to meet the Training Package Organising Framework (1 July 2025) which were ratified by Commonwealth and State/Territory ministers.

It provides advice about the structure of the Training Package, its key features and detailed information on a range of related topics.

In addition to providing information relevant to all training packages, this guide also provides information and advice about the history, structure, key features and application of the UET Transmission, Distribution and Rail Sector Training Package.

Version Control and modification history

Training Packages are dynamic documents and are amended periodically to reflect the latest industry practices. Training Packages are version controlled so it is essential that the latest release is always used.

In the version control and modification history table below, the latest information is provided first.

Version Number	Release Date	Comments
7.0	August 2025	This is the seventh release of this Training Package. 1 Revised Qualification: UET30821 Certificate III in ESI – Distribution Underground 1 new Unit of Competency: UETDRDU023 Joint, Terminate and Maintain High Voltage Ethylene Propylene Rubber (EPR) Cable.
6.0	March 2025	This is the sixth release of this Training Package. This release incorporated 2 revised Qualification and 7 new Units of Competency. It also includes 2 updated imported Units of Competency. 2 updated Qualifications: UET30621 - Certificate III in ESI - Distribution Overhead UET60222 - Advanced Diploma of ESI - Power Systems 7 updated Units of Competency: UETDRMP014 Perform cable pit/trench/excavation rescue UETDRMP015 Perform elevated work platform controlled descent escape UETDRMP016 Perform elevated work platform rescue UETDRMP017 Perform pole top rescue UETDRMP018 Perform rescue from a live low voltage panel UETDRMP019 Perform rescue from switchyard structures UETDRMP020 Perform tower rescue 2 updated imported Unit of Competency:

		MEM30031 Operate computer-aided design (CAD) system to produce basic drawing elements MEM30033 Use computer-aided design (CAD) to create and display 3-D models
5.0	7 December 2022	This is the fifth release of this Training Package. This release incorporates 1 new Unit of Competency and 1 new Skill Set. New Unit of Competency: • UETDRCD001 Work safely around powerlines as an ordinary person New Skill Set: • UETSS00055 Work Safely Around Powerlines as an Ordinary Person Skill Set
4.0	14 October 2022	This is the fourth release of this Training Package. This release incorporates 3 revised Qualifications, 1 new Skill Set, 4 new Units of Competency and 79 revised Units of Competency. It also includes the deletion of three Qualifications, 18 Skill Sets and 35 Units of Competency. Revised Qualification: • UET40422 Certificate IV in ESI - Network Systems • UET40522 Certificate IV in ESI - Power Systems Substations • UET60222 Advanced Diploma of ESI - Power Systems New Skill Set: • UETSS00054 Maintain Energised Rail Traction Networks Skill Set Revised Units of Competency: • UETDRDS016 Coordinate and perform line and easement surveys • UETDRDS017 Design customer substations • UETDRDS018 Design distribution protection systems • UETDRDS019 Design distribution substations • UETDRDS020 Design overhead distribution systems • UETDRDS021 Design public lighting systems • UETDRDS022 Design underground distribution systems • UETDRDS023 Draft and layout a distribution substation minor upgrade • UETDRDS024 Draft and layout overhead distribution extension • UETDRDS025 Draft and layout street lighting system • UETDRDS026 Draft and layout underground distribution extension • UETDRDS027 Investigate quality of supply issues • UETDRDS028 Prepare and manage construction plans for electrical infrastructure • UETDRDU020 Joint, terminate and maintain gas and oil filled underground cables • UETDRDU021 Joint, terminate and maintain underground polymeric cable 33kv and above • UETDRDU022 Maintain gas and oil pressure systems for underground cables • UETDRIS020 Contribute to coordinated HV live work • UETDRIS021 Coordinate and direct switching programs • UETDRIS022 Coordinate permit procedures • UETDRIS023 Develop and validate high voltage distribution switching program • UETDRIS024 Develop basic low voltage switching program • UETDRIS025 Diagnose and resolve faults in distribution systems • UETDRIS026 Diagnose and resolve faults in electrical apparatus • UETDRIS027 Diagnose and resolve faults in transmission systems • UETDRIS028 Implement and monitor environmental policies and procedures • UETDRIS029 Implement and monitor organisational WHS/OHS policies, procedures and programs

		• UETDRIS030 Install high voltage mobile generator • UETDRIS031 Maintain insulating oil • UETDRIS032 Solve problems in network equipment • UETDRIS033 Solve problems in network protection • UETDRMP001 Apply access authority procedures to work on or near electrical apparatus • UETDRMP002 ESI safety rules for work on, near or in the vicinity of electrical apparatus • UETDRMP003 Perform cable pit/trench/excavation rescue • UETDRMP004 Perform elevated work platform controlled descent escape • UETDRMP005 Perform elevated work platform rescue • UETDRMP006 Perform pole top rescue • UETDRMP007 Perform rescue from a live low voltage panel • UETDRMP008 Perform rescue from switchyard structures • UETDRMP009 Perform tower rescue • UETDRMP010 Provide first aid in an ESI environment • UETDRMP011 Testing of connections to low voltage electricity networks • UETDRSB002 Commission and maintain discrete control and protection systems • UETDRSB003 Commission and maintain distribution field devices • UETDRSB004 Conduct surveys using thermovision techniques • UETDRSB005 Diagnose and resolve faults in a substation environment • UETDRSB006 Inspect substations • UETDRSB007 Install and maintain substation direct current systems • UETDRSB008 Install high current d.c. equipment and switchgear • UETDRSB009 Install high voltage plant and equipment • UETDRSB010 Maintain capacitor bank equipment • UETDRSB011 Maintain high current d.c. equipment and switchgear • UETDRSB012 Maintain high voltage circuit breakers • UETDRSB013 Maintain on-load tap changers (OLTCs) • UETDRSB014 Maintain power and instrument transformers • UETDRSB015 Maintain static var compensators (SVC) • UETDRSB016 Maintain synchronous condensers • UETDRSO012 Coordinate and manage distribution and sub-transmission network access and activities • UETDRSO013 Coordinate and manage transmission network access and activities • UETDRSO014 Coordinate operations in a regulated energy market • UETDRSO015 Develop and validate distribution and sub-transmission switching programs • UETDRSO016 Develop and validate low voltage switching programs • UETDRSO017 Develop and validate transmission switching programs • UETDRSO018 Dispatch and monitor field staff activities • UETDRSO019 Manage supply and demand in distribution and sub-transmission networks • UETDRSO020 Operate SCADA equipment • UETDRSO021 Respond to protection operations • UETDRTS028 Calibrate verify and certify revenue metering/energy measurement instruments • UETDRTS029 Commission and maintain communication equipment • UETDRTS030 Commission and maintain complex energy/revenue metering schemes • UETDRTS031 Commission and maintain energy/revenue metering schemes • UETDRTS032 Commission and maintain metering schemes • UETDRTS033 Commission and maintain network protection and control systems • UETDRTS034 Commission and maintain voltage regulating equipment • UETDRTS035 Conduct evaluation of network protection and control system faults • UETDRTS036 Develop secondary protection and control scheme isolation instructional documents • UETDRTS037 Maintain and calibrate protection relays and meters • UETDRTS038 Perform accuracy checks on instrument transformers • UETDRTS039 Perform current injection testing of secondary devices • UETDRVC012 Coordinate vegetation control operations
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		New Units of Competency: • UETDRDS015 Assess distributed energy resource connections to a distribution network • UETDRMP012 Working on Energised Low Voltage Overhead Electrical Apparatus • UETDRMP013 Working on Energised Low Voltage Underground Electrical Apparatus • UETDRRT015 Maintain energised rail traction networks
3.0	3 June 2022	This is the third release of this Training Package. This release incorporates one revised Qualification, and 3 revised Units of Competency. It also includes the deletion of two Units of Competency. Revised Qualification: • UET20422 Certificate II in Transmission Line Construction Revised Units of Competency: • UETDRTO015 Assemble and erect transmission structures • UETDRTO016 Install transmission structure hardware • UETDRTO017 String overhead transmission conductors Minor changes to a range of UET Training Package components were made at the same time as products endorsed as part of Release 3.0 was published. This included updating five Qualifications and one Unit of Competency.
2.0	20 September 2021	This is the second release of this Training Package. This release incorporates 14 revised Qualifications, six new Units of Competency and 156 revised Units of Competency. It also includes the deletion of one Qualification and eight Units of Competency. Revised Qualifications: • UET20321 Certificate II in ESI – Powerline Vegetation Control • UET20421 Certificate II in Transmission Structure and Line Assembly • UET20621 Certificate II in ESI – Asset Inspection and Testing • UET30521 Certificate III in ESI – Transmission Overhead • UET30621 Certificate III in ESI – Distribution Overhead • UET30721 Certificate III in ESI – Rail Traction • UET30821 Certificate III in ESI – Distribution Underground • UET30921 Certificate III in ESI – Very Remote Community Utilities • UET40421 Certificate IV in ESI – Network Systems • UET40521 Certificate IV in ESI – Power Systems Substations • UET40621 Certificate IV in ESI – Power Systems Network Infrastructure • UET50221 Diploma of ESI – Power Systems • UET50321 Diploma of ESI – Power Systems Operations • UET60221 Advanced Diploma of ESI – Power Systems New Units of Competency: • UETDRAI002 Inspect poles, hardware and electrical apparatus • UETDRAI004 Treat poles • UETDREL003 Identify and apply controls for alternate supplies on the distribution network

		• UETDRDU002 Inspect underground electrical apparatus • UETDRDU007 Install and maintain underground public lighting • UETDRVC001 Apply work health and safety requirements for powerline vegetation control
1.2	20 April 2021	This release incorporates the deletion of one Qualification and 26 Units of Competency. Deleted Qualification: • UET60319 Advanced Diploma of ESI – Power Systems Operations Deleted Units of Competency: • UETTDARDS40 Prepare and appraise power systems financial impact statements • UETTDARDS41 Manage electrical power systems infrastructure projects • UETTDARDS44 Design power system substations modifications • UETTDARDS47 Review power system asset management strategies • UETTDARDS48 Analyse and appraise power system fault and outage data • UETTDARDS49 Establish and manage power system geographical information systems data • UETTDARDS51 Manage power system transmission and sub-transmission design process • UETTDARDS52 Design power system transmission, sub-transmission and zone substation buildings • UETTDARDS53 Design power system transmission and sub-transmission substation primary plant • UETTDARDS54 Design power system transmission and sub-transmission protection and control • UETTDARDS55 Design power system transmission and sub-transmission substation earthing • UETTDARDS56 Design power system transmission, sub-transmission & zone substation civil & structural components • UETTDARDS57 Design power system overhead transmission systems • UETTDARDS58 Design underground transmission systems • UETTDARDS66 Manage an electricity power system WHS/OHS management system • UETTDARRT34 Install and maintain traction network wiring systems • UETTDARRT35 Install and maintain traction network equipment and components • UETTDARRT36 Maintain traction network wiring systems • UETTDARRT37 Maintain traction network equipment and components • UETTDARSO33 Manage power systems critical events • UETTDARSO34 Control power systems generating plant • UETTDARSO39 Coordinate low voltage distribution networks • UETTDARSO42 Manage power systems transmission network demand • UETTDARSO43 Coordinate low voltage distribution network demand • UETTDARSO44 Develop crisis power systems management plans • UETTDARSO51 Manage network systems power flows
1.1	24 March 2021	Amendment to the Performance Evidence for the following units: • UETTDARRF01 Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus • UETTDARRF02 Perform pole top rescue • UETTDARRF03 Perform EWP rescue • UETTDARRF04 Perform tower rescue • UETTDARRF05 Perform rescue from switchyard structures at heights • UETTDARRF06 Perform rescue from a live LV panel • UETTDARRF07 Perform cable pit/trench/excavation rescue • UETTDARRF08 Perform EWP controlled descent escape • UETTDARRF09 Apply access procedures to work on or near electrical network infrastructure • UETTDARRF10 Provide first aid in an ESI environment • UETTDARRF11 Testing of connections to low voltage electricity networks

1.0	25 September 2019	This is the first release of this Training Package. Supersedes UET12 Transmission, Distribution and Rail Sector Training Package Release 2.1.
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TRAINING PACKAGES, THE AUSTRALIAN QUALIFICATIONS FRAMEWORK AND COMPETENCY STANDARDS

Training Packages

Training packages specify the knowledge and skills required by individuals to perform effectively in the workplace, known as 'competencies' and expressed in units of competency. Training packages also detail how units of competency can be packaged into nationally recognised skill sets and qualifications that align with the AQF.

Training packages prescribe assessment requirements, but they do not prescribe how an individual should be trained.

Training packages are used for a number of purposes, but they are predominantly used:

- by RTOs, to design training curriculum tailored to support individual learner needs, and the needs of employers and industry
- by employers, to assist with workforce design, development and structure.

Training packages consist of the following nationally endorsed *training products*, which are:

- units of competency, which specify the standard of performance required in the workplace
- assessment requirements (associated with each unit of competency)
- qualifications aligned to the AQF (Certificate I to Advanced Diploma, and Graduate Certificate and Graduate Diploma)
- credit arrangements specifying existing arrangements between training package qualifications and higher education qualifications in accordance with the AQF.

Training packages also consist of the following non-endorsed training product components:

- skill sets
- companion volume implementation guides

Training package products development rules, owned by Skills Ministers, are reviewed regularly to ensure they remain fit for-purpose. These rules, referred to as the Training Package Organising Framework (TPOF).

Also, of relevance to the design, development and delivery of training packages are the:

- National Vocational Education and Training Regulator Act 2011
- Standards for Registered Training Organisations 2025
- Standards for Vocational Education and Training Regulators 2015
- National Register of Vocational Education and Training
- Australian Qualifications Framework
- Standards for VET Accredited Courses 2021

The above mentioned legislation can be located on the [Australian Government ComLaw website](#).

Australian Qualifications Framework

The Australian Qualifications Framework (AQF) provides a comprehensive, nationally consistent framework for all qualifications in post-compulsory education and training in Australia. In the Vocational Education and Training (VET) sector the AQF enables national recognition of qualifications and Statements of Attainment.

The UET Transmission, Distribution and Rail Sector Training Package Release 7.0 provides details of the Units of Competency that must be achieved to award AQF qualifications.

The rules around which Units of Competency can be combined to make up a valid AQF qualification are referred to as the packaging rules. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

The packaging rules are defined within each qualification in a Training Package.

Competency Standards

The broad concept of industry competency is the ability to perform particular tasks and duties to the standard of performance expected in the workplace. Competency standards cover all aspects of workplace performance and involve:

- Performing individual tasks
- Managing a range of different tasks
- Responding to contingencies or breakdowns
- Dealing with the responsibilities of the workplace, including working with others.

Workplace competency is the ability to apply relevant skills and knowledge consistently over time and in the required workplace situations and environments.

Competency standards are determined by industry to meet industry skill needs and focus on what is expected of a competent individual in the workplace.

AUSTRALIAN QUALIFICATIONS FRAMEWORK QUALIFICATIONS, SKILL SETS AND UNITS OF COMPETENCY IN THE UET TRANSMISSION, DISTRIBUTION AND RAIL SECTOR TRAINING PACKAGE

Qualifications

The UET Transmission, Distribution and Rail Sector Training Package Release 7.0 of the Units of Competency that must be achieved to award AQF qualifications.

The rules around which Units of Competency can be combined to make up a valid AQF qualification are referred to as the packaging rules. The packaging rules must be followed to ensure the integrity of nationally recognised qualifications issued.

Codes and titles

There are mandatory conventions specified in the Training Package Organising Framework 2025 for the titles and codes used in Training Packages and their components.

QUALIFICATION CODE Mandatory Field	The qualification code contains the three alpha characters identifying the Training Package, a numeric character identifying the AQF level, a two numeric character sequence identifier, and two numeric characters identifying the year the qualification was endorsed. It must comply with the length specified in the AVETMIS Standard.
QUALIFICATION TITLE Mandatory Field	A Unique title that reflects the qualification outcome. It must comply with the length specified in the AVETMIS Standard (no more than 100 characters).

The title of each endorsed Training Package qualification is unique. Qualification titles use the following sequence:

- First, the qualification is identified as either Certificate I, Certificate II, Certificate III, Certificate IV, Diploma, Advanced Diploma, Graduate Certificate, or Graduate Diploma
- This is followed by the words 'in' for Certificates I to IV and Graduate Certificate, and 'of' for Diploma, Advanced Diploma and Graduate Diploma
- Then, the industry descriptor, for example Warehousing
- Then, if applicable, the occupational or functional stream in brackets, for example (Track Work).

Each qualification has an eight-character code where the:

- First three characters identify the Training Package

- First number identifies the AQF qualification level
- Second and third numbers identify a qualification's position in the sequence of qualifications at that AQF qualification level
- Fourth and fifth numbers identify the year in which the qualification was endorsed.

For example: UET30721 Certificate III in ESI – Rail Traction

AQF Qualifications in the UET Transmission, Distribution and Rail Sector Training Package

The following AQF qualifications are in the UET Transmission, Distribution and Rail Sector Training Package:

AQF	Code	Qualification Title
AQF 2	UET20321	Certificate II in ESI – Powerline Vegetation Control
	UET20621	Certificate II in ESI – Asset Inspection and Testing
	UET20422	Certificate II in Transmission Line Construction
AQF 3	UET30521	Certificate III in ESI – Transmission Overhead
	UET30621	Certificate III in ESI – Distribution Overhead
	UET30721	Certificate III in ESI – Rail Traction
	UET30821	Certificate III in ESI – Distribution Underground
	UET30921	Certificate III in ESI – Very Remote Community Utilities
AQF 4	UET40422	Certificate IV in ESI – Network Systems
	UET40522	Certificate IV in ESI – Substations
AQF 6	UET60222	Advanced Diploma of ESI – Power Systems

Skill Sets

Skill Sets are single Units of Competency or combinations of Units of Competency from an endorsed Training Package/s that link to a licensing or regulatory requirement or a defined industry need.

A Skill Set is awarded with the issuing of a Statement of Attainment.

Each Skill Set has a code that is automatically issued by training.gov.au (TGA) where the:

- First three characters identify the Training Package
- Next two characters indicate that it is a Skill Set
- Numbers identify the Skill Set's position in the sequence of Skill Sets.

Skill Sets in the UET Transmission, Distribution and Rail Sector Training Package

The following Skill Sets are in the UET Transmission, Distribution and Rail Sector Training Package:

Code	Skill Set Title
UETSS00054	Maintain Energised Rail Traction Networks Skill Set
UETSS00055	Work Safely Around Powerlines as an Ordinary Person Skill Set

Units of Competency

Codes and titles

Units of Competency are nationally agreed statements about the skills and knowledge required for effective performance in the workplace. They outline work outcomes as defined by regulatory requirements and agreed by industry.

As such, they identify the skills and knowledge (as outcomes) that contribute to the whole job function – they do not describe how to perform a particular role.

Each Unit of Competency covers a specific work activity, the range of conditions under which the activity is conducted and the foundation skills essential to performance.

The same Unit of Competency (i.e. specific work activity) can be relevant across a range of AQF qualification levels. It is important to check the packaging rules in qualifications to establish how units can apply.

UNIT CODE Mandatory Field	The unit code contains the three alpha characters identifying the Training Package, followed by alpha and /or a numeric character. It must comply with the length specified in the AVETMIS Standard (no more than 12 characters)
UNIT TITLE Mandatory Field	The title that concisely describes the outcome. It must comply with the length specified in the AVETMIS Standard (no more than 100 characters).

There are mandatory conventions specified in the Training Package Organising Framework 2025 for the titles and codes used in Training Packages and their components.

The codes are assigned to Units of Competency when the Training Package is endorsed, or when new Units of Competency are added to an existing endorsed Training Package.

Each Unit of Competency has a specific character code where the:

- First three characters identify the Training Package
- Next character/s indicates the competency field
- Numbers identify a unit's position in the sequence of units in the competency field in the Training Package.

For example: UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable

Assessment Requirements

Each Unit of Competency has its own assessment requirements that identify the:

- Performance evidence
- Knowledge evidence
- Assessment conditions

TITLE Mandatory Field	Assessment Requirements for [Insert Unit of Competency Code and title]
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The same code is used for the Unit of Competency and its associated assessment requirements.

Units of Competency in the UET Transmission, Distribution and Rail Sector Training Package

TRANSMISSION, DISTRIBUTION AND RAIL COMPETENCY FIELDS

The following table identifies the Unit of Competency letter codes for the competency field:

CODE	Competency Field
AI	Asset Inspection
CD	Cross Discipline
DO	Distribution Overhead
DS	Design
DU	Distribution Underground
EL	Entry Level
IS	Industry Specific
MP	Mobility and Portability
RC	Remote Community
RT	Rail Traction
SB	Substation
SO	System Operations
TO	Transmission Overhead
TS	Testing
VC	Vegetation Control

The following Units of Competency are in the UET Transmission, Distribution and Rail Sector Training Package:

Code	Unit of Competency Title
UETDRAI001	Inspect and test poles at and below ground level
UETDRAI002	Inspect poles, hardware and electrical apparatus
UETDRAI003	Perform minor maintenance on electricity network assets
UETDRAI004	Treat poles
UETDRAI005	Use asset inspection equipment
UETDRCD001	Work safely around powerlines as an ordinary person
UETDRDO001	Inspect overhead poles, structures and electrical apparatus
UETDRDO003	Maintain energised high voltage distribution overhead electrical apparatus (glove and barrier)
UETDRDO004	Maintain energised high voltage distribution overhead electrical apparatus (stick)
UETDRDO005	Maintain overhead energised low voltage distribution network
UETDRDO006	Maintain, test and verify distribution overhead network
UETDRDS015	Assess distributed energy resource connections to a distribution network
UETDRDS016	Coordinate and perform line and easement surveys
UETDRDS017	Design customer substations
UETDRDS018	Design distribution protection systems
UETDRDS019	Design distribution substations
UETDRDS020	Design overhead distribution systems
UETDRDS021	Design public lighting systems
UETDRDS022	Design underground distribution systems
UETDRDS023	Draft and layout a distribution substation minor upgrade
UETDRDS024	Draft and layout overhead distribution extension
UETDRDS025	Draft and layout street lighting system
UETDRDS026	Draft and layout underground distribution extension
UETDRDS027	Investigate quality of supply issues
UETDRDS028	Prepare and manage construction plans for electrical infrastructure
UETDRDU001	Conduct high voltage testing of underground power cable system
UETDRDU002	Inspect underground electrical apparatus
UETDRDU007	Install and maintain underground public lighting
UETDRDU009	Install, test and verify distribution underground cable installations
UETDRDU010	Joint, terminate and maintain energised low voltage underground paper insulated cable
UETDRDU011	Joint, terminate and maintain energised low voltage underground polymeric cable
UETDRDU012	Joint, terminate and maintain high voltage underground paper insulated cable
UETDRDU013	Joint, terminate and maintain high voltage underground polymeric cable
UETDRDU014	Joint, terminate and maintain low voltage underground paper insulated cable
UETDRDU015	Joint, terminate and maintain low voltage underground polymeric cable
UETDRDU016	Lay power cables
UETDRDU017	Locate faults in underground power cables
UETDRDU019	Transition joint high voltage paper insulated cable to high voltage polymeric cable
UETDRDU020	Joint, terminate and maintain gas and oil filled underground cables
UETDRDU021	Joint, terminate and maintain underground polymeric cable 33kv and above
UETDRDU022	Maintain gas and oil pressure systems for underground cables
UETDRDU023	Joint, Terminate and Maintain High Voltage Ethylene Propylene Rubber (EPR) Cable.
UETDREL001	Apply environmental requirements
UETDREL002	Comply with environmental requirements
UETDREL003	Identify and apply controls for alternate supplies on the distribution network
UETDREL004	Operate plant and equipment in the vicinity of live electrical apparatus
UETDREL005	Work safely in the vicinity of live electrical apparatus
UETDREL006	Work safely in the vicinity of live electrical apparatus as a non-electrical worker
UETDRIS007	Install and maintain distribution overhead conductors and cables
UETDRIS008	Install and maintain electrical apparatus
UETDRIS010	Install and maintain low voltage overhead services
UETDRIS011	Install and maintain low voltage underground services
UETDRIS012	Install and maintain poles, structures and hardware
UETDRIS013	Install and maintain public lighting systems
UETDRIS014	Install and replace energy meters and associated equipment
UETDRIS015	Install low voltage mobile generator
UETDRIS017	Perform high voltage field switching operation to a given schedule
UETDRIS018	Perform low voltage field switching operation to a given schedule

UETDRIS020	Contribute to coordinated HV live work
UETDRIS021	Coordinate and direct switching programs
UETDRIS022	Coordinate permit procedures
UETDRIS023	Develop and validate high voltage distribution switching program
UETDRIS024	Develop basic low voltage switching program
UETDRIS025	Diagnose and resolve faults in distribution systems
UETDRIS026	Diagnose and resolve faults in electrical apparatus
UETDRIS027	Diagnose and resolve faults in transmission systems
UETDRIS028	Implement and monitor environmental policies and procedures
UETDRIS029	Implement and monitor organisational WHS/OHS policies, procedures and programs
UETDRIS030	Install high voltage mobile generator
UETDRIS031	Maintain insulating oil
UETDRIS032	Solve problems in network equipment
UETDRIS033	Solve problems in network protection
UETDRMP001	Apply access authority procedures to work on or near electrical apparatus
UETDRMP002	ESI safety rules for work on, near or in the vicinity of electrical apparatus
UETDRMP010	Provide first aid in an ESI environment
UETDRMP011	Testing of connections to low voltage electricity networks
UETDRMP012	Working on Energised low voltage overhead electrical apparatus
UETDRMP013	Working on Energised low voltage underground electrical apparatus
UETDRMP014	Perform cable pit/trench/excavation rescue
UETDRMP015	Perform elevated work platform controlled descent escape
UETDRMP016	Perform elevated work platform rescue
UETDRMP017	Perform pole top rescue
UETDRMP018	Perform rescue from a live low voltage panel
UETDRMP019	Perform rescue from switchyard structures
UETDRMP020	Perform tower rescue
UETDRRC001	Install and maintain low voltage overhead services in a very remote community
UETDRRC002	Install and maintain low voltage underground services in a very remote community
UETDRRC003	Install and maintain public lighting systems in a very remote community
UETDRRC004	Install and replace energy meters and associated equipment in a very remote community
UETDRRC005	Maintain, test and verify power systems in a very remote community
UETDRRC006	Perform low voltage electricity network switching in a very remote community
UETDRRC007	Solve problems in electrical network apparatus in a very remote community
UETDRRC008	Solve problems in low voltage electrical network circuits in a very remote community
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
UETDRRT013	Perform rail traction switching operations to a given schedule
UETDRRT014	Test and verify rail traction installations
UETDRRT015	Maintain energised rail traction networks
UETDRSB001	Perform substation switching operations to a given schedule
UETDRSB002	Commission and maintain discrete control and protection systems
UETDRSB003	Commission and maintain distribution field devices
UETDRSB004	Conduct surveys using thermovision techniques
UETDRSB005	Diagnose and resolve faults in a substation environment
UETDRSB006	Inspect substations
UETDRSB007	Install and maintain substation direct current systems
UETDRSB008	Install high current d.c. equipment and switchgear
UETDRSB009	Install high voltage plant and equipment
UETDRSB010	Maintain capacitor bank equipment
UETDRSB011	Maintain high current d.c. equipment and switchgear
UETDRSB012	Maintain high voltage circuit breakers
UETDRSB013	Maintain on-load tap changers (OLTCs)
UETDRSB014	Maintain power and instrument transformers
UETDRSB015	Maintain static var compensators (SVC)
UETDRSB016	Maintain synchronous condensers
UETDRSO012	Coordinate and manage distribution and sub-transmission network access and activities
UETDRSO013	Coordinate and manage transmission network access and activities
UETDRSO014	Coordinate operations in a regulated energy market
UETDRSO015	Develop and validate distribution and sub-transmission switching programs
UETDRSO016	Develop and validate low voltage switching programs
UETDRSO017	Develop and validate transmission switching programs
UETDRSO018	Dispatch and monitor field staff activities

UETDRSO019	Manage supply and demand in distribution and sub-transmission networks
UETDRSO020	Operate SCADA equipment
UETDRSO021	Respond to protection operations
UETDRTO004	Inspect and maintain transmission overhead network
UETDRTO005	Inspect transmission structures, conductors and hardware
UETDRTO006	Install and maintain transmission conductors
UETDRTO007	Install and maintain transmission structures and hardware
UETDRTO010	Maintain energised transmission lines using barehand techniques from a helicopter
UETDRTO011	Maintain energised transmission lines using live work barehand techniques
UETDRTO012	Maintain energised transmission lines using live work stick techniques
UETDRTO015	Assemble and erect transmission structures
UETDRTO016	Install transmission structure hardware
UETDRTO017	String overhead transmission conductors
UETDRTS028	Calibrate verify and certify revenue metering/energy measurement instruments
UETDRTS029	Commission and maintain communication equipment
UETDRTS030	Commission and maintain complex energy/revenue metering schemes
UETDRTS031	Commission and maintain energy/revenue metering schemes
UETDRTS032	Commission and maintain metering schemes
UETDRTS033	Commission and maintain network protection and control systems
UETDRTS034	Commission and maintain voltage regulating equipment
UETDRTS035	Conduct evaluation of network protection and control system faults
UETDRTS036	Develop secondary protection and control scheme isolation instructional documents
UETDRTS037	Maintain and calibrate protection relays and meters
UETDRTS038	Perform accuracy checks on instrument transformers
UETDRTS039	Perform current injection testing of secondary devices
UETDRVC001	Apply work health and safety requirements for powerline vegetation control
UETDRVC002	Assess vegetation in an electricity supply industry environment
UETDRVC003	Control vegetation for powerline work
UETDRVC004	Control vegetation in the vicinity of live electrical apparatus from an elevated work platform
UETDRVC005	Control vegetation in the vicinity of live electrical apparatus from ground level
UETDRVC006	Control vegetation in the vicinity of live electrical apparatus from within the tree
UETDRVC007	Control vegetation using pruning techniques
UETDRVC009	Monitor vegetation control work in the vicinity of live electrical apparatus
UETDRVC010	Perform rescue from within a tree in the vicinity of live electrical apparatus
UETDRVC011	Use specialised plant to cut vegetation above ground in the vicinity of live electrical apparatus
UETDRVC012	Coordinate vegetation control operations

QUALIFICATION MAPPING INFORMATION

Attachment A: Qualification mapping information

The qualification mapping aligns the UET Transmission, Distribution and Rail Sector Training Package (Release 7.0) with each qualification's previous major release.

SKILL SETS MAPPING INFORMATION

Attachment B: Skill sets mapping information

The skill set mapping aligns the UET Transmission, Distribution and Rail Sector Training Package (Release 7.0) with each skill set's previous major release.

UNIT OF COMPETENCY MAPPING INFORMATION

Attachment C: Units of Competency mapping information

The Unit of Competency mapping aligns the UET Transmission, Distribution and Rail Sector Training Package (Release 7.0) with each unit of competency's previous major release.

PRE-REQUISITE UNITS OF COMPETENCY

Candidates must be deemed competent in the required prerequisite Unit/s of Competency prior to the determination of competency in the Units of Competency they appear in. Some Units of Competency within the UET Training Package have prerequisites that are streamed to facilitate different industry pathways and care must be taken to ensure the correct prerequisite requirements are implemented.

In some instance Units of Competency may not list any prerequisite units of competency, they instead provide information in the unit description regarding preferred entry into the unit.

Where a prerequisite unit is attached to a unit, it is identified by this symbol L.

UETDRMP017	Perform pole top rescue └ HLTAID009 provide cardiopulmonary resuscitation
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As shown above, HLTAID009 must be done as a part of the pre-requisites.

Equivalency/ Or Equivalent

The term Equivalency/ Or Equivalent has been used within the UET Training Package in addressing the prerequisite unit requirements of a unit or the entry requirements of a qualification.

“Or equivalent” means a situation where a learning framework and outcome from one period of time is treated as equal to a current training outcome, e.g., a pre-AQF state or enterprise-based certificate of proficiency is treated as equal to a current qualification. The primary purpose of the Equivalency rule is to ensure that existing trade qualified workers trained under previous systems/qualifications are not unfairly treated in the current AQF environment.

It is important to note, that the specifics of the qualification structure may not be the same, but the trade qualification outcomes are treated as equal by the network operators.

To accurately identify prerequisite requirements, refer to the individual units.

Where a prerequisite unit is attached to a unit, it is identified by this symbol └ .

Code	Title
UETDRAI001	Inspect and test poles at and below ground level └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker or └ UETDREL001 Apply environmental requirements └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRAI002	Inspect poles, hardware and electrical apparatus └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker
UETDRAI003	Perform minor maintenance on electricity network assets └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker
UETDRAI004	Treat poles └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker
UETDRAI005	Use asset inspection equipment └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker
UETDRDO001	Inspect overhead poles, structures and electrical apparatus └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications └ UETDREL001 Apply environmental requirements └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDO005	Maintain overhead energised low voltage distribution network └ 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
UETDRDO006	Maintain, test and verify distribution overhead network └ 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 └ UETDRDO001 Inspect overhead poles, structures and electrical apparatus └ UETDRDO005 Maintain overhead energised low voltage distribution network └ 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 └ UETDRIS008 Install and maintain electrical apparatus └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRIS010 Install and maintain low voltage overhead services └ UETDRIS012 Install and maintain poles, structures and hardware
UETDRDS015	Assess distributed energy resource connections to a distribution network └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDRDS027 Investigate quality of supply issues └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS016	Coordinate and perform line and easement surveys └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDRDS028 Prepare and manage construction plans for electrical infrastructure └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS017	Design customer substations └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS018	Design distribution protection systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS019	Design distribution substations └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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
UETDRDS020	Design overhead distribution systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS021	Design public lighting systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS022	Design underground distribution systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS023	Draft and layout distribution substation minor upgrade └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS024	Draft and layout overhead distribution extension └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS025	Draft and layout street lighting system └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS026	Draft and layout underground distribution extension └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS027	Investigate quality of supply issues └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDS028	Prepare and manage construction plans for electrical infrastructure └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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
UETDRDU001	Conduct high voltage testing of underground power cable system └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU002	Inspect underground electrical apparatus └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker or └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU007	Install and maintain underground public lighting └ 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
UETDRDU009	Install, test and verify distribution underground cable installations

	└ 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 └ 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 └ UETDRDU002 Inspect underground electrical apparatus └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable └ 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 └ UETDRIS008 Install and maintain electrical apparatus └ UETDRIS011 Install and maintain low voltage underground services
UETDRDU010	- Joint, terminate and maintain energised low voltage underground paper insulated cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRDU014 Joint, terminate and maintain low voltage underground paper insulated cable
UETDRDU011	- Joint, terminate and maintain energised low voltage underground polymeric cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable
UETDRDU012	- Joint, terminate and maintain high voltage underground paper insulated cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU013	- Joint, terminate and maintain high voltage underground polymeric cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU014	- Joint, terminate and maintain low voltage underground paper insulated cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU015	- Joint, terminate and maintain low voltage underground polymeric cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU017	- Locate faults in underground power cables └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRDU019	- Transition joint high voltage paper insulated cable to high voltage polymeric cable └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable
UETDRDU021	- Joint, terminate and maintain underground polymeric cable 33kV and above └ 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 └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable └ UETDREL001 Apply environmental requirements └ UETDREL005 Work safely in the vicinity of live electrical apparatus

UETDRDU022	Maintain gas and oil pressure systems for underground cables └ UETDRDU020 Joint, terminate and maintain gas and oil filled underground cables
UETDRDU023	Joint, Terminate and Maintain High Voltage Ethylene Propylene Rubber (EPR) Cable. └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDREL003	Identify and apply controls for alternate supplies on the distribution network └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
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
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 └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware
UETDRIS008	Install and maintain electrical apparatus └ 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 └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable └ UETDRDU013 Joint, terminate and maintain high voltage underground polymeric cable or └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain overhead conductors and cables
UETDRIS010	Install and maintain low voltage overhead services └ 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
UETDRIS011	- Install and maintain low voltage underground services └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
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
UETDRIS013	- Install and maintain public lighting systems └ 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 └ UETDRDO005 Maintain overhead energised low voltage distribution network └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables
UETDRIS014	- Install and replace energy meters and associated 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
UETDRIS015	- Install low voltage mobile generator └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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

	└ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRIS017	Perform high voltage field switching operation 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 electrical apparatus └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS018 Perform low voltage field switching operations to a given schedule
UETDRIS018	Perform low voltage field switching operation to a given schedule └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRIS020	Contribute to coordinated HV live work └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRIS025	Diagnose and resolve faults in distribution systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS026 Diagnose and resolve faults in electrical apparatus └ UETDRIS032 Solve problems in network equipment
UETDRIS026	Diagnose and resolve faults in electrical apparatus └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS032 Solve problems in network equipment
UETDRIS027	Diagnose and resolve faults in transmission systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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

	└ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS026 Diagnose and resolve faults in electrical apparatus └ UETDRIS032 Solve problems in network equipment
UETDRIS032	- Solve problems in network equipment └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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
UETDRIS033	- Solve problems in network protection └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS032 Solve problems in network equipment
UETDRMP001	- Apply access authority procedures to work on or near electrical apparatus └ UETDRMP002 ESI safety rules for work on, near or in the vicinity of electrical apparatus
UETDRMP014	- Perform cable pit/trench/excavation rescue └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP016	- Perform elevated work platform rescue └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP017	- Perform pole top rescue └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP018	- Perform rescue from a live low voltage panel └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP019	- Perform rescue from switchyard structures └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP020	- Perform tower rescue └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP010	- Provide first aid in an ESI environment └ HLTAID009 Provide cardiopulmonary resuscitation
UETDRMP011	- Testing of connections to low voltage electricity networks └ 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 and └ UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS010 Install and maintain low voltage overhead services or └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS011 Install and maintain low voltage underground services or

	└ UETDRIS014 Install and replace energy meters and associated equipment
UETDRMP012	Working on Energised Low Voltage Overhead Electrical Apparatus └ 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 └ UETDRDO005 Maintain overhead energised low voltage distribution network └ 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
UETDRMP013	Working on Energised Low Voltage Underground Electrical Apparatus └ 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 └ UETDRDU011 Joint, terminate and maintain energised low voltage underground polymeric cable └ UETDRDU015 Joint, terminate and maintain low voltage underground polymeric cable └ UETDREL001 Apply environmental requirements └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRRC001	Install and maintain low voltage overhead services in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC002	Install and maintain low voltage underground services in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC003	Install and maintain public lighting systems in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, assemble and dismantle utilities industry components └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC004	- Install and replace energy meters and associated equipment in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC005	- Install, maintain, test and verify power systems in a very remote community └ 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 └ UEERE0007 Conduct periodic maintenance of remote area power supply generator sets └ UEERE0018 Maintain and repair remote area power generation facilities └ UEERE0019 Maintain safety and tidiness of remote area power supply systems └ UEERE0023 Work safely with remote area power supply systems └ UEERE0041 Maintain operation of remote area power generation plant └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC008 Solve problems in low voltage electrical network circuits in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC006	- Perform low voltage electricity network switching in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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
UETDRRC007	- Solve problems in electrical network apparatus in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRC008	- Solve problems in low voltage electrical network circuits in a very remote community └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0046 Solve problems in single path circuits └ 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 └ UETDRRC007 Solve problems in electrical network apparatus in a very remote community └ UETDRRC006 Perform low voltage electricity network switching in a very remote community
UETDRRT001	Install 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 └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT002 Install overhead traction components and equipment
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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables
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 └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT002 Install overhead traction components and equipment
UETDRRT004	Install traction overhead wiring systems └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ 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 └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT011 Maintain traction overhead wiring systems └ UETDRRT001 Install overhead rail traction configurations └ UETDRRT002 Install overhead traction components and equipment └ UETDRRT009 Maintain overhead traction components and equipment
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 └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT011 Maintain traction overhead wiring systems └ UETDRRT003 Install rail traction bonds └ UETDRRT002 Install overhead traction components and equipment └ UETDRRT009 Maintain overhead traction components and equipment

UETDRRT011	Maintain traction overhead wiring systems └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT002 Install overhead traction components and equipment
UETDRRT012	Operate rail road height access plant near rail traction systems └ 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
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 electrical apparatus └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT001 Install overhead rail traction configurations └ UETDRRT002 Install overhead traction components and equipment
UETDRRT014	Test and verify rail traction installations └ 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 └ UETDRIS012 Install and maintain poles, structures and hardware └ UETDRIS007 Install and maintain distribution overhead conductors and cables └ UETDRRT004 Install traction overhead wiring systems └ UETDRRT011 Maintain traction overhead wiring systems └ UETDRRT003 Install rail traction bonds └ UETDRRT010 Maintain rail traction bonds └ UETDRRT001 Install overhead rail traction configurations └ UETDRRT008 Maintain overhead rail traction configurations

	└ UETDRRT002 Install overhead traction components and equipment └ UETDRRT009 Maintain overhead traction components and equipment └ UETDRRT012 Operate rail road height access plant near rail traction systems
UETDRSB003	Commission and maintain distribution field devices └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRSB007	Install and maintain substation direct current systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0019 Fabricate, dismantle, assemble of 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
UETDRSO012	Coordinate and manage distribution and sub-transmission network access and activities └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDRSO015 Develop and validate distribution and sub-transmission switching programs └ UETDRSO016 Develop and validate low voltage switching programs └ UETDRSO020 Operate SCADA equipment
UETDRSO013	Coordinate and manage transmission network access and activities └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDRSO017 Develop and validate transmission switching programs └ UETDRSO020 Operate SCADA equipment
UETDRSO014	Coordinate operations in a regulated energy market └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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
UETDRSO015	Develop and validate distribution and sub-transmission switching programs └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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

UETDRSO016	Develop and validate low voltage switching programs L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices
UETDRSO017	Develop and validate transmission switching programs L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices
UETDRSO019	Manage supply and demand in distribution and sub-transmission networks L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices L UETDRSO012 Coordinate and manage distribution and sub-transmission network access and activities L UETDRSO015 Develop and validate distribution and sub-transmission switching programs L UETDRSO020 Operate SCADA equipment
UETDRSO021	Respond to protection operations L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices L UETDRSO020 Operate SCADA equipment
UETDRTO004	Inspect and maintain transmission overhead network L CPCCLDG3001 Licence to perform dogging L CPCCLRG3001 Licence to perform rigging basic level L TLILIC0005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more) L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices L UETDREL001 Apply environmental requirements L UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus L UETDREL005 Work safely in the vicinity of live electrical apparatus L UETDRTO005 Inspect transmission structures, conductors and hardware L UETDRTO006 Install and maintain transmission conductors L UETDRTO007 Install and maintain transmission structures and hardware
UETDRTO005	Inspect transmission structures, conductors and hardware L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UETDREL001 Apply environmental requirements L UETDREL005 Work safely in the vicinity of live electrical apparatus

UETDRTO006	Install and maintain transmission conductors L CPCCLRG3001 Licence to perform rigging basic level L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UETDREL001 Apply environmental requirements L UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus L UETDREL005 Work safely in the vicinity of live electrical apparatus L UETDRTO007 Install and maintain transmission structures and hardware
UETDRTO007	Install and maintain transmission structures and hardware L CPCCLRG3001 Licence to perform rigging basic level L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UETDREL001 Apply environmental requirements L UETDREL004 Operate plant and equipment in the vicinity of live electrical apparatus L UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRTO010	Maintain energised transmission lines using barehand techniques from a helicopter L UETDRTO012 Maintain energised transmission lines using live work stick techniques
UETDRTO011	Maintain energised transmission lines using live work barehand techniques L UETDRTO012 Maintain energised transmission lines using live work stick techniques
UETDRTO015	Assemble and erect transmission structures L CPCCLDG3001 Licence to perform dogging L CPCCLRG3001 Licence to perform rigging basic level L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UETDREL002 Comply with environmental requirements
UETDRTO016	Install transmission structure hardware L CPCCLDG3001 Licence to perform dogging L CPCCLRG3001 Licence to perform rigging basic level L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UETDREL002 Comply with environmental requirements
UETDRTO017	String overhead transmission conductors L CPCCLDG3001 Licence to perform dogging L CPCCLRG3001 Licence to perform rigging basic level L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UETDREL002 Comply with environmental requirements L UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker L UETDRTO015 Assemble and erect transmission structures L UETDRTO016 Install transmission structure hardware
UETDRTS028	Calibrate, verify and certify revenue metering/energy measurement instruments L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEEEL0019 Solve problems in direct current (d.c.) machines L UEEEL0020 Solve problems in low voltage a.c. circuits L UEEEL0021 Solve problems in magnetic and electromagnetic devices L UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRTS029	Commission and maintain communication equipment L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0010 Compile and produce an energy sector detailed report L UEECD0019 Fabricate, assemble and dismantle utilities industry components L 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS030	Commission and maintain complex energy/revenue metering schemes └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS031 Commission and maintain energy/revenue metering schemes └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS031	Commission and maintain energy/revenue metering schemes └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS032	Commission and maintain metering schemes └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS033	Commission and maintain network protection and control systems └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus

	└ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS034	- Commission and maintain voltage regulating equipment └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS035	- Conduct evaluation of network protection and control system faults └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS036	- Develop secondary protection and control scheme isolation and restoration documents └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRTS037	- Maintain and calibrate protection relays and meters └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS038	- Perform accuracy checks on instrument transformers └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECD0010 Compile and produce an energy sector detailed report └ 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

	└ UETDREL005 Work safely in the vicinity of live electrical apparatus └ UETDRTS036 Develop secondary protection and control scheme isolation and restoration documents
UETDRTS039	Perform current injection testing of secondary devices └ 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 └ UETDREL005 Work safely in the vicinity of live electrical apparatus
UETDRVC002	Assess vegetation in an electricity supply industry environment └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control
UETDRVC003	Control vegetation whilst performing linework └ 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
UETDRVC004	Control vegetation in the vicinity of live electrical apparatus from an elevated work platform └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control └ UETDRVC009 Monitor vegetation control work in the vicinity of live electrical apparatus └ UETDRVC007 Control vegetation using pruning techniques
UETDRVC005	Control vegetation in the vicinity of live electrical apparatus from ground level └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control └ UETDRVC009 Monitor vegetation control work in the vicinity of live electrical apparatus
UETDRVC006	Control vegetation in the vicinity of live electrical apparatus from within the tree └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control └ UETDRVC009 Monitor vegetation control work in the vicinity of live electrical apparatus └ UETDRVC007 Control vegetation using pruning techniques
UETDRVC007	Control vegetation using pruning techniques └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control
UETDRVC009	Monitor vegetation control work in the vicinity of live electrical apparatus └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control
UETDRVC010	Perform rescue from within a tree in the vicinity of live electrical apparatus └ UETDREL002 Comply with environmental requirements └ UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker └ UETDRVC001 Apply work health and safety requirements for powerline vegetation control └ UETDRVC006 Control vegetation in the vicinity of live electrical apparatus from within the tree └ UETDRVC009 Monitor vegetation control work in the vicinity of live electrical apparatus └ UETDRVC007 Control vegetation using pruning techniques

UETDRVC011	Use specialised plant to cut vegetation above ground in the vicinity of live electrical apparatus L UETDREL002 Comply with environmental requirements L UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker L UETDRVC001 Apply work health and safety requirements for powerline vegetation control L UETDRVC009 Monitor vegetation control work in the vicinity of live electrical apparatus
UETDRVC012	Coordinate vegetation control operations L UETDREL002 Comply with environmental requirements L UETDREL006 Work safely in the vicinity of live electrical apparatus as a non-electrical worker L UETDRVC001 Apply work health and safety requirements for powerline vegetation control or L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UETDREL001 Apply environmental requirements L UETDREL005 Work safely in the vicinity of live electrical apparatus

IMPORTED UNITS AND THEIR PREREQUISITE UNITS

The UET Transmission, Distribution and Rail Sector Training Package Release 7.0 includes imported Units of Competency from other Training Packages.

Please check the relevant assessment requirements of the source Training Package by accessing the national training website www.training.gov.au (TGA) or a physical copy regarding any special conditions that may apply to the assessment of imported Units of Competency.

For up-to-date releases of the imported units, refer to www.training.gov.au or the respective JSC

Where any of the Units of Competency listed below are used to form a qualification or Skill Set, they do not count as Units of Competency imported under the qualification packaging rule:

- Refer to the packaging rules in each of the qualifications for the required general elective Units of Competency that may be selected from any relevant nationally endorsed Training Package or accredited course. The general elective Units of Competency must contribute to the vocational outcomes of the qualification.

Where imported units are selected, care must be taken to ensure that all prerequisite Units of Competency specified are complied with.

Where a prerequisite unit is attached to a unit, it is identified by this symbol L .

Code	Title
AHC - Agriculture, Horticulture and Conservation and Land Management Training Package	
AHCARB322	Access trees for inspection
AHCCHM201	Apply chemicals under supervision
AHCMOM213	Operate and maintain chainsaws
AHCMOM304	Operate machinery and equipment
AHPCPM204	Recognise plants
AHPCPM205	Fell small trees L AHCMOM213 Operate and maintain chainsaws
AVI – Aviation Training Package	
AVIW0006	Perform infrastructure inspections using remote operated systems
BSB - Business Services Training Package	
BSBFIN501	Manage budgets and financial plans
BSBHRM523	Coordinate the learning and development of teams and individuals
BSBINS402	Coordinate workplace information systems
BSBINS501	Implement information and knowledge management systems
BSBLDR413	Lead effective workplace relationships
BSBLDR414	Lead team effectiveness
BSBLDR522	Manage people performance



BSBOPS402	Coordinate business operational plans
BSBOPS502	Manage business operational plans
BSBOPS505	Manage organisational customer service
BSBPEF501	Manage personal and professional development
BSBSTR402	Implement continuous improvement
BSBSTR501	Establish innovative work environments
BSBSTR502	Facilitate continuous improvement
BSBSUS511	Develop workplace policies and procedures for sustainability
BSBTWK502	Manage team effectiveness
CPC - Construction, Plumbing and Services Training Package	
CPCCLDG3001	Licence to perform dogging
CPCCLRG3001	Licence to perform rigging basic level └ CPCCLDG3001 Licence to perform dogging
CPCCLRG3002	Licence to perform rigging intermediate level └ CPCCLRG3001 Licence to perform rigging basic level
CPCCLRG4001	Licence to perform rigging advanced level └ CPCCLRG3002 Licence to perform rigging intermediate level
FWP - Forest and Wood Products Training Package	
FWPHAR2208	Operate a mobile chipper/mulcher
HLT – Health Training Package	
HLTAID009	Provide cardiopulmonary resuscitation
ICT - Information and Communications Technology	
ICTWHS202	Work safely in a radio frequency electromagnetic radiation environment
MEM- Manufacturing and Engineering	
MEM30031	Operate computer-aided design (CAD) system to produce basic drawing elements
MEM30033	Use computer-aided design (CAD) to create and display 3-D models └ MEM30031 Operate computer-aided design (CAD) system to produce basic drawing element
NWP – National Water Training Package	
NWPCAD004	Maintain catchment and surrounding areas
NWPCAD019	Monitor and operate groundwater extraction
NWPGEN017	Apply the risk management principles of the water industry standards, guidelines and legislation
NWPGEN020	Sample and test source or drinking water
NWPGEN021	Sample and test wastewater
NWPGEN023	Use maps, plans, drawings and details
NWPGEN027	Monitor and operate pump stations
NWPNET020	Control electrical risk on metallic pipes
NWPNET036	Perform leak detection
NWPNET038	Install metering equipment
NWPNET039	Maintain and repair network assets for drinking water
NWPNET040	Maintain and repair network assets for wastewater
NWPTRT005	Monitor and operate water treatment processes
NWPTRT027	Monitor and operate wastewater treatment processes
PUA – Public Safety Training Package	
PUAWHS002	Maintain safety at an incident scene
RII - Resources and Infrastructure Industry Training Package	
RIIHAN309F	Conduct telescopic materials handler operations
TLI – Transport and Logistics Training Package	
TLIF0021	Administer the implementation of fatigue management strategies
TLIF2010	Apply fatigue management strategies
TLILIC0003	Licence to operate a forklift truck
TLILIC0005	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)

TLILIC0022	Licence to operate a slewing mobile crane (up to 20 tonnes)
TLILIC0024	Licence to operate a vehicle loading crane (capacity 10 metre tonnes and above)
TLILIC2015	Licence to drive a medium rigid vehicle
TLILIC2016	Licence to drive a heavy rigid vehicle
UEE – Electrotechnology Training Package	
UEECD0007	Apply work health and safety regulations, codes and practices in the workplace
UEECD0010	Compile and produce an energy sector detailed report
UEECD0019	Fabricate, assemble and dismantle utilities industry components └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEECD0030	Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software └ UEECS0033 Use engineering applications software on personal computers └ 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 └ UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications and └ UEECD0043 Solve problems in direct current circuits or └ UEECD0044 Solve problems in multiple path circuits └ UEECD0046 Solve problems in single path circuits
UEECD0031	Prepare engineering drawings using manual drafting and CAD for electrotechnology applications └ UEECD0007 Apply work health and safety regulations, codes and practices in the workplace └ UEECS0033 Use engineering applications software on personal computers └ UEECD0019 Fabricate, assemble and dismantle utilities industry components └ UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications
UEECD0032	Produce detailed electrotechnology/utilities drawings using CAD equipment and software └ 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 └ UEECD0031 Prepare engineering drawings using manual drafting and CAD for electrotechnology applications └ UEECD0030 Prepare electrotechnology/utilities drawings using manual drafting and CAD equipment and software └ UEECS0033 Use engineering applications software on personal computers and └ UEECD0043 Solve problems in direct current circuits or └ UEECD0044 Solve problems in multiple path circuits └ UEECD0046 Solve problems in single path circuits
UEECD0036	Provide engineering solutions for problems in complex multiple path circuits
UEECD0039	Provide solutions to basic engineering computational problems └ 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
UEECO0001	Estimate electrotechnology projects
UEECS0033	Use engineering applications software on personal computers
UEEEL0019	Solve problems in direct current (d.c.) machines └ 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 L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEEEL0020	Solve problems in low voltage a.c. circuits L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEEEL0021 Solve problems in magnetic and electromagnetic devices and L UEECD0043 Solve problems in direct current circuits or L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEEEL0021	Solve problems in magnetic and electromagnetic devices L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace and L UEECD0043 Solve problems in direct current circuits or L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEEEL0062	Provide engineering solutions to problems in complex polyphase power circuits L UEECD0036 Provide engineering solutions for problems in complex multiple path circuits L UEEEL0020 Solve problems in low voltage a.c. circuits
UEEIC0012	Develop structured programs to control external devices L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERE0006	Conduct periodic maintenance of remote area power supply battery banks L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEERE0019 Maintain safety and tidiness of remote area power supply systems L UEERE0023 Work safely with remote area power supply systems and L UEECD0043 Solve problems in direct current circuits or L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEERE0007	Conduct periodic maintenance of remote area power supply generator sets L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, dismantle, assemble of utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEERE0019 Maintain safety and tidiness of remote area power supply systems L UEERE0023 Work safely with remote area power supply systems and L UEECD0043 Solve problems in direct current circuits or L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEERE0008	Conduct periodic maintenance of remote area power supply photovoltaic arrays L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEERE0019 Maintain safety and tidiness of remote area power supply systems L UEERE0023 Work safely with remote area power supply systems and L UEECD0043 Solve problems in direct current circuits or L UEECD0044 Solve problems in multiple path circuits L UEECD0046 Solve problems in single path circuits
UEERE0009	Conduct periodic maintenance of remote area power supply wind generators L UEECD0007 Apply work health and safety regulations, codes and practices in the workplace L UEECD0019 Fabricate, assemble and dismantle utilities industry components L UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications L UEERE0019 Maintain safety and tidiness of remote area power supply systems L UEERE0023 Work safely with remote area power supply systems and L UEECD0043 Solve problems in direct current circuits or

	- UEECD0044 Solve problems in multiple path circuits - UEECD0046 Solve problems in single path circuits
UEERE0018	Maintain and repair remote area power generation facilities - 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 - UEERE0007 Conduct periodic maintenance of remote area power supply generator sets - UEERE0019 Maintain safety and tidiness of remote area power supply systems - UEERE0023 Work safely with remote area power supply systems and - UEECD0043 Solve problems in direct current circuits or - UEECD0044 Solve problems in multiple path circuits - UEECD0046 Solve problems in single path circuits
UEERE0019	Maintain safety and tidiness of remote area power supply systems - UEECD0007 Apply work health and safety regulations, codes and practices in the workplace - UEERE0023 Work safely with remote area power supply systems
UEERE0023	Work safely with remote area power supply systems UEECD0007 Apply work health and safety regulations, codes and practices in the workplace
UEERE0041	Maintain operation of remote area power generation plant UEERE0018 Maintain and repair remote area power generation facilities
UEP – ESI Generation Training Package	
UEPOPS030	Conduct project management
UEPOPS038	Evaluate cost estimations and initiate appropriate solutions UEECO0001 Estimate electrotechnology projects

KEY WORK AND TRAINING REQUIREMENTS IN THE INDUSTRY

The ESI Transmission, Distribution and Rail industry refers to Australia's infrastructure networks that are used to transport high voltage (HV) electricity from generators to distribution networks, and then directly to domestic and industrial users. The transmission network is inclusive of power lines and substations

The UET Transmission, Distribution and Rail Sector Training Package provides the only nationally recognised Vocational Education and Training (VET) qualifications for occupations involved in Transmission Structure and Line Assembly, Asset Inspection and Testing, Transmission Overhead (erection of towers, poles, structures and hardware), Distribution Overhead (installation, maintenance and inspection of poles, structures and hardware), Distribution Underground, Power Systems and Power Systems Operations.

The UET Transmission, Distribution and Rail Sector Training Package comprises 11 qualifications, 2 Skill Sets, 164 units of competency and 84 Imported units of competency and associated assessment requirements, and covers distribution, transmission, rail traction, distribution underground, asset inspection and testing, vegetation control, equipment installation, maintenance and design.

The traditional centralised and uni-directional electricity distribution network as we used to know is now omnidirectional, where electricity is locally generated, stored, consumed or sent back to the grid. The Internet of Things (IoT), the trend of connecting devices, sensors and data collecting tools to networks, relaying information without a human intermediary, is also radically changing the nature of electricity supply. Sensors and wireless communication gateways collect and process data, enabling higher resolution (real-time) data collection of electricity use.

Distributed Energy Resources (DERs), such as battery energy storage and solar photovoltaics (PVs), are transforming the way electricity is produced and distributed. DERs are instrumental in addressing electricity supply reliability gaps. New software technologies continue to alter the operations of DERs by forecasting moments of peak demand on the grid and optimising electricity distribution using Big Data and Machine Learning. Energy storage reduces load on grids at peak times and enables energy providers to manage their supply and demand more effectively.

Traditional consumers have now become prosumers, i.e., consumers who are able to produce electricity as well. This can be done via Virtual Power Plants (VPPs) which are cloud-based power plants that can integrate electricity from solar panels and wind farms and release it into the grid. VPPs offer consumers the opportunity to tap into their stored solar power during peak times. Digitalisation is giving rise to smart energy networks which communicate between users and producers via technologies such as sensors and smart meters. For example, the Western Australian Government is currently investing in the deployment of advanced metering infrastructure to install 238,000 smart meters in the next

coming years. This project will encompass smart communication infrastructure which will enable bi-directional power flow, leading to improved visibility of electricity flow, efficiency, safety, reliability of operations and customer services. Therefore, energy management, control and communication technology will have a central role in the digitalisation of the energy sector.

With increasing interconnectedness and decentralised distribution models it is critical to have technical expertise at all levels to maintain the operations of these systems. To this end, workforce planning and skills development needs to occur now if the industry is to fulfil future labour force needs.

REGULATION AND LICENSING IMPLICATIONS FOR IMPLEMENTATION

The Transmission, Distribution and Rail Industry is subject to a high level of regulation, guidelines and codes of practice related to the assembly, installation and maintenance of parts, components and the control and operation of equipment and apparatus. The regulations, guidelines and codes of practice are based on principles of the operation of overhead and underground wiring systems and associated circuits involving equipment, apparatus and systems, public safety, safety and health of individuals who work on systems and apparatus/equipment and other codes and practices related to the environment in which they are installed and maintained.

Training Products in this Training Package have been developed in consultation with the following stakeholders:

- employers and their representatives/peak bodies
- employees and their representatives/unions
- the Commonwealth, state and territory governments (including licensing and regulatory bodies)
 - Registered Training Organisations (RTOs)
 - educational experts
- learners and other interested stakeholders as appropriate (including those with disability-specific knowledge)
 - other Jobs and Skills Councils, as appropriate

so that, where appropriate, these training products align to the requirements of legislation, regulations and mandated codes of practice. It must also be noted that licensing/regulatory requirements vary between states and territories and may change from time to time.

Licensing and regulatory authorities will recognise a range of Units of Competency contained within this Training Package for respective licensing, registration or accreditation purposes.

IMPLEMENTATION INFORMATION

KEY FEATURES OF THE TRAINING PACKAGE AND THE INDUSTRY THAT WILL IMPACT ON THE SELECTION OF TRAINING PATHWAYS

Pathways define a sequence of learning or experience that can be followed to attain competency and describe the way in which training, and assessment is undertaken in an education or training program. They are not mandatory and may vary depending on the qualification or training program, the needs of the individual and the industry.

The UET Transmission, Distribution and Rail Sector Training Package is flexible and various pathways can be constructed to align with individual requirements and business needs. RTOs can work with their clients to apply the flexibility available in the packaging rules to ensure 'fit for purpose outcomes'.

The UET Transmission, Distribution and Rail Sector Training Package also contains Units of Competency imported from other Training Packages to enable organisations with broader needs to ensure qualifications are relevant to their operation.

ELECTRICITY SUPPLY INDUSTRY, TRANSMISSION, DISTRIBUTION AND RAIL MUTUAL AID PROTOCOL

The development of the National Energy Market, increased interconnection of energy infrastructure across jurisdictional boundaries, energy companies operating in multiple jurisdictions and the desire for a rapid response to emergency situations has produced an increasing need for portability of workers and national harmonisation of energy industry regulation.

This protocol has been developed initially to facilitate the portability of Electricity Supply Industry, Transmission, Distribution and Rail (ESI TDR) workers, to assist in the restoration of electricity supply in response to an emergency situation, such as a bushfire or cyclone. In the longer term, it will facilitate the portability of refresher training competencies (units identified within the competency field of Mobility and Portability, MP) held by network workers.

The protocol:

- Identifies the minimum refresher training requirements which must be current for ESI TDR workers in an emergency situation to gain and maintain access for the duration of the emergency to any ESI network infrastructure nationally.
- Confirms agreement to mutual recognition of these refresher training competencies and their currencies for the purposes of gaining and maintaining access to any ESI network infrastructure nationally.
- Confirms the agreement of each network operator to assess the refresher training competencies for ESI TDR workers and to conduct induction training which includes local safety procedures, risk assessments, familiarisation in the tasks to be performed and identifies restricted work activities.
 - Recognises that these refresher training competencies form the longer-term basis for workforce mobility and skills portability enhancement opportunities.

To accommodate the requirements for the protocol, units of competency are available in Group B elective bank within UET30621 Certificate III in ESI – Distribution Overhead qualification.

The units are:

- HLTAID009 Provide cardiopulmonary resuscitation
- UETDRMP001 Apply access authority procedures to work on or near electrical apparatus
- UETDRMP002 ESI safety rules for work on, near or in the vicinity of electrical apparatus
- UETDRMP014 Perform cable pit/trench/excavation rescue
- UETDRMP015 Perform elevated work platform controlled descent escape

- UETDRMP016 Perform elevated work platform rescue
- UETDRMP017 Perform pole top rescue
- UETDRMP018 Perform rescue from a live low voltage panel
- UETDRMP019 Perform rescue from switchyard structures
- UETDRMP020 Perform tower rescue
- UETDRMP010 Provide first aid in an ESI environment
- UETDRMP011 Testing of connections to low voltage electricity networks
- UETDRMP012 Working on Energised Low Voltage Overhead Electrical Apparatus
- UETDRMP013 Working on Energised Low Voltage Underground Electrical Apparatus

INDUSTRY SECTORS AND OCCUPATIONAL OUTCOMES OF QUALIFICATIONS

State and territory authorities have different regulatory requirements for licensing in this sector based on UET Transmission, Distribution and Rail Sector Training Package components. Users are advised to contact the relevant state or territory regulatory authority to confirm licensing requirements. - The UET Transmission, Distribution and Rail Sector Training Package Release 7.0 comprises 11 qualifications, 2 Skill Sets, 164 units of competency and 84 imported units of competency aligned to the occupations below:

Industry Occupations Guide

Qualification		Occupation		Industry Sector	
UET20321	Certificate II in ESI - Powerline Vegetation Control	Powerline Vegetation Control Worker	Powerline Vegetation Control Workers control the growth of vegetation in the vicinity of live electrical apparatus. They work at heights, pruning trees and other plants.	Utilities Services -> Electricity Industry -> Electricity Distribution	This sector covers the delivery of electricity to customers, including homes and businesses.
UET20621	Certificate II in ESI - Asset Inspection and Testing	ESI Asset Inspector	ESI Asset Inspectors inspect, test and report on the status of electricity network assets, including poles, hardware, cables, overhead conductors, public lighting and electrical apparatus.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET20422	Certificate II in Transmission Line Construction	Transmission Line Assembly Worker	Transmission Line Assembly Workers assemble transmission towers and structures and string transmission overhead conductors prior to them being tensioned.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET30521	Certificate III in ESI - Transmission Overhead	Transmission Lineworker (Tradesperson)	Transmission lineworkers install and maintain transmission infrastructure and networks. They work on de-energised high voltage (HV) powerlines conveying electricity from generating plants to substations. They install, inspect and maintain towers, poles, structures conductors and hardware.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.

UET30621	Certificate III in ESI - Distribution Overhead	Distribution Lineworker	Distribution lineworkers install, maintain, repair and patrol electrical sub-transmission and distribution systems. They maintain cables, overhead conductors for electric trains, public lighting, and substation infrastructure, such as buses and transformers.	Utilities Services -> Electricity Industry -> Electricity Distribution	This sector covers the delivery of electricity to customers, including homes and businesses.
UET30721	Certificate III in ESI - Rail Traction	Rail Traction Lineworker	Rail Traction Workers install, maintain and inspect overhead powerlines for trains and trams. They deal with overhead poles/structure, conductors and cable and rail traction wiring systems.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET30821	Certificate III in ESI – Distribution Underground	Distribution Underground Lineworker or Cable Jointer	Distribution Underground Lineworkers join, terminate and repair electrical cables. They install and maintain HV and low voltage (LV) underground cables, services and electrical equipment, and may work on underground or overhead lines.	Utilities Services -> Electricity Industry -> Electricity Distribution	This sector covers the delivery of electricity to customers, including homes and businesses.
UET30921	Certificate III in ESI – Very Remote Community Utilities	Very Remote Community Utilities Worker	Very Remote Community Utilities Workers operate, monitor and maintain generation power systems (excluding mine sites) within very remote communities. All work on essential electrical utilities is undertaken in a non-energised (Dead) environment other than for testing purposes.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET40422	Certificate IV in ESI – Network Systems	Live Line Worker	Live Line Workers are certified to install, repair and maintain HV powerlines and infrastructure, including underground and overhead cables, and electric train services. They may lead work teams.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET40422	Certificate IV in ESI – Network Systems	Powerline Supervisor	Powerline Supervisors lead and manage a team of ESI distribution and/or transmission tradespeople to deliver a power company's operational priorities.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.

UET40422	Certificate IV in ESI – Network Systems	Specialised Line Worker	Line Workers provide technical guidance for the installation and maintenance of overhead or underground electricity cables and may also help plan distribution systems. They may work in transmission, distribution or rail.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET40522	Certificate IV in ESI - Substations	Substation Maintenance Electrician	Substation Maintenance Technicians lead teams and provide high-level guidance for substation maintenance work. They maintain HV power systems, including circuit breakers and transformers. They carry out inspections, diagnose and rectify faults.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET40522	Certificate IV in ESI - Substations	Electrical Technician (ESI)	Electrical Technicians in the ESI install, maintain, repair, test and commission electrical equipment. They can work on the construction and/or maintenance of substations.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET40522	Certificate IV in ESI - Substations	Substation Electrician	Substation Technicians work as Technicians and Team Leaders in the HV section of the transmission and distribution sector of the ESI.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET60222	Advanced Diploma of ESI - Power Systems	Power Systems Technical Officer	Power Systems Technical Officers design new overhead and underground powerline systems. They work in the transmission, distribution and/or rail sectors, generally working indoors in a design/drafting facility.	Utilities Services -> Electricity Industry -> Electricity Distribution Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the delivery of electricity to customers, including homes and businesses. This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET60222	Advanced Diploma of ESI - Power Systems	High Voltage Substation Project Manager	High Voltage Substation Project Managers oversee the construction of electrical substations and related projects within the ESI. They manage personnel and the business aspects of projects and give specialist	Utilities Services -> Electricity Industry -> Electricity Distribution Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the delivery of electricity to customers, including homes and businesses. This sector covers the movement or transfer of electricity between

			advice to deal with day-to-day issues and problems.		the point of supply and the points where it is transformed for delivery to consumers.
UET60222	Advanced Diploma of ESI - Power Systems	Senior Systems Operator (Electricity Supply Industry)	Senior Systems Operators develop operational procedures for, and oversee, the isolation of plant and equipment in various sectors of the ESI. They monitor power station operations, use protection equipment such as switchgear to isolate plant from circuits or processes, to prevent electrical damage. They supervise and coordinate teams and activities.	Utilities Services -> Electricity Industry -> Electricity Distribution Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the delivery of electricity to customers, including homes and businesses. This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET60222	Advanced Diploma of ESI - Power Systems	Power Systems Senior Technical Officer	Power Systems Senior Technical Officers perform high-level managerial, design, testing and system operation functions in the transmission and distribution sectors of the ESI.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.
UET60222	Advanced Diploma of ESI - Power Systems	Power Transmission and Distribution System Engineer	Power Transmission and Distribution System Engineers install, commission, maintain, diagnose and repair the hardware and software of complex power system protection, control and metering systems.	Utilities Services -> Electricity Industry -> Electricity Transmission	This sector covers the movement or transfer of electricity between the point of supply and the points where it is transformed for delivery to consumers.

QUALIFICATIONS ENTRY REQUIREMENTS

Entry requirements are the knowledge, skills or experience required to enter a qualification. They may be expressed as Units of Competency, qualifications or vocational outcomes and must be demonstrated prior to commencing the qualification.

In the UET Transmission, Distribution and Rail Sector Training Package there are entry requirements that apply to the following qualifications:

Code	Qualification	Rational
UET40522	Certificate IV in ESI - Substations	This is a post-trade qualification for Electricians

Equivalency/ Or Equivalent

The term Equivalency/ Or Equivalent has been used within the UET Training Package in addressing the prerequisite unit requirements of a unit or the entry requirements of a qualification.

“Or equivalent” means a situation where a learning framework and outcome from one period of time is treated as equal to a current training outcome, e.g., a pre-AQF state or enterprise-based certificate of proficiency is treated as equal to a current qualification. The primary purpose of the Equivalency rule is to ensure that existing trade qualified workers trained under previous systems/qualifications are not unfairly treated in the current AQF environment.

It is important to note, that the specifics of the qualification structure may not be the same, but the trade qualification outcomes are treated as equal by the network operators.

PATHWAYS ADVICE

Information about specific pathways relevant to qualifications in the Training Package is best provided by RTOs delivering the qualifications and state/territory advisory bodies.

Generally, all qualifications in the UET Transmission, Distribution and Rail Sector Training Package are suitable for delivery via an Australian Apprenticeship pathway.

The Australian Apprenticeships website offers information about traineeships and apprenticeships and includes links to State and Territory Training Authorities (STAs) that monitor provision.

VET in Schools programs are packaged and delivered in a variety of ways across Australia. However, it is highly recommended that schools work together in partnership with an RTO where qualifications or Skill Sets result in strong transferable skills relevant to the needs of the individual and commercial enterprises.

Qualifications from the UET Training Package are identified as not always being suitable for VET in Schools. A possible VET in School pathway into the UET Training package is through the UEE22020 Certificate II in Electrotechnology (Career Start) qualification.

Qualifications at AQF 2 levels are not prerequisites for the higher-level qualifications.

Principle pathways into the AQF 3 qualifications are through employment or apprenticeships. In practice, the qualifications through the structure of electives, generally incorporate transferable broad-based skills applicable to a diverse range of job roles in more than one qualification.

Qualifications at AQF 3 and 4 levels are not entry requirements for the higher-level qualifications.

The UET ESI Transmission, Distribution and Rail Sector (TDR) Training Package qualifications provide pathways in the following disciplines:

- Distribution Underground (Cable Jointing)
- Distribution Overhead
- Transmission Overhead
- Rail Traction
- Very Remote Communities Linework
- Systems Operations

Users of the UET Transmission, Distribution and Rail Sector Training Package are encouraged to clarify with the relevant authorities, the various regulated occupations in the ESI TDR industry, the full certification requirements for each, and the availability of Australian Apprenticeships and VET in Schools.

Skill Set Pathways

UET Training Package Skill Sets provide pathways to a range of UET qualifications. The Table below show the AQF levels of qualifications the Skill Set provides a pathway to.

Code	Skill Set Title	Pathways
UETSS00054	Maintain energised rail traction networks Skill Set	AQF 4 UET qualification
UETSS00055	Work Safely Around Powerlines as an Ordinary Person Skill Set	AQF 1 -4 qualifications in all training packages

CREDIT ARRANGEMENTS

Credit transfer arrangements between qualifications in this Training Package and higher education qualifications are encouraged between providers, but no national credit arrangements exist at this time.

ACCESS AND EQUITY

Good vocational education, training and assessment includes making adjustments to meet the learning and assessment needs of individuals. An open mind, common sense and tailoring training and assessment to individual circumstances should ensure individuals achieve the standards employers and RTOs expect.

Adjustments can be made to assist learners to access and participate in VET. Adjustments are reasonable if they achieve this purpose and take into account factors such as the nature of the learner's ability and disability, the views of the learner, the potential effect of the adjustment on the learner and others, and the costs and benefits of making the adjustment.

Reasonable adjustments need only be that – reasonable. It is about identifying what adjustments might reasonably be made and how they may be put into place.

Assessment processes and techniques should be modified for distance-based learners, be culturally appropriate and suitable to the communication skill level, language, literacy and numeracy capacity of the candidate and the work being performed.

An individual's access to the assessment process should not be adversely affected by restrictions placed on the location or context of assessment.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

FOUNDATION SKILLS

Language, literacy and numeracy skills can make the difference between whether or not someone succeeds in training and at work. These important skills are now called 'core skills' or 'foundation skills' because they are at the core of – or the foundation to – other more specific technical skills.

All Units of Competency in UET Transmission, Distribution and Rail Sector Training Packages clearly describe the foundation skills that are essential to performance in the elements and performance criteria of the unit.

There is a distinction between 'core skills' and 'foundation skills' in Training Packages, which can be summarised as follows:

- Core skills are those described in the ACSF: learning, numeracy, oral communication (speaking and listening), reading and writing.
- Foundation skills is the term that the Australian Government uses in a number of different contexts, including vocational units of competency, to capture language, literacy and numeracy skills and employment skills.

In the UET Transmission, Distribution and Rail Sector Training Package, foundation skills are explicit in the performance criteria in each Unit of Competency.

This is achieved with the use of key words or phrases to indicate foundation skills that are essential to performance. It is important to note that foundation skills may not have the same meaning in every instance and do need to be considered in the relevant job context.

The significance of each of these skills will also vary in respect to job roles and the strengths of individuals. It is important for users of the Training Package to contextualise relevant foundation skills identified in Units of Competency and assessment requirements.

FSK Foundation Skills Training Package

The FSK Foundation Skills Training Package allows RTOs to choose and deliver foundation skills units, qualifications and Skill Sets that will enable learners to build the specific foundation skills they need to achieve vocational competency.

Foundation skills units provide additional information about the types of language, literacy and numeracy skills that are needed to meet the requirements of vocational units.

The Training Package can be downloaded from www.training.gov.au.

HEALTH AND SAFETY IMPLICATIONS IN THE INDUSTRY

Work health and safety (WHS)/occupational health and safety (OHS) has been referenced in Units of Competency to refer to the relevant legislation. As not all jurisdictions have implemented the Model Work Health and Safety (WHS) Act the combined term is used to recognise that either the national model or existing state instrument will apply, as specified by the relevant regulatory authority.

In jurisdictions where the Model WHS Act has not been implemented, RTOs are advised to contextualise the Unit of Competency by referring to the existing state/territory OHS legislative requirements.

RESOURCES AND EQUIPMENT RELEVANT TO THE TRAINING PACKAGE

The assessment requirements relevant to each Unit of Competency refer to the relevant resources and equipment required for assessment.

Where a specific plant or piece of equipment is referred to, it must be used in the relevant assessment.

In particular, for assessment, access is required to:

- a range of relevant exercises, case studies and/or simulations
- typical plant of that used in the industry
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment (PPE) currently used in the ESI TDR industry.

Specific assessment requirements and strategies are defined in the relevant Units of Competency where applicable.

RTOs can only conduct training and/or assessment of the qualifications and/or Units of Competency in this Training Package provided they are covered by their Scope of Registration.

The assessment requirements for each Unit of Competency specify the relevant resources and equipment required to achieve the vocational outcomes of the UET Transmission, Distribution and Rail Sector Training Package.

RANGE OF CONDITIONS

The Range of Conditions tables provide non-essential industry specified advice on resources, definitions and conditions that may be relevant for assessment of a Unit of Competency.

LEGAL CONSIDERATIONS FOR LEARNERS IN THE WORKPLACE/ON PLACEMENTS

Legal requirements that apply to specific industries and VET vary across each state and territory, and the Commonwealth and can change.

Contact relevant state/territory and Commonwealth departments to determine specific legal requirements.



DEFINITION GUIDE

For the standardised industry definitions refer to Energy Networks Australia list of definitions.

These definitions are for application within UET Transmission, Distribution and Rail Sector Training Package and are not to be considered a definitive list, but a clearer understanding of the meaning of the terms contained in a Unit of Competency. These terminologies do not necessarily apply in all states/territories and can vary between states/territories.

Term	Definition
Chemicals	Means in relation to herbicides, insecticides and fungicides. May also include those used to clean and lubricate electrical apparatus, tools and equipment.
Commissioning	Means placing into service electrical apparatus or an electricity network.
Electrical Equipment	Means electrical apparatus that is connected to the electricity network via conductors or cables. This term can be used when referring to apparatus that is are conductors and cables, e.g., transformers and ring main switches.
Epicormic Growth	Means a shoot or branch growing from a previously dormant bud on a trunk or limb of a tree.
Gases	Means any used in the ESI for example: • liquefied petroleum gas (LPG) • SF6 • oxy-acetylene
Hardware	Means items fixed to a pole, structure or electrical apparatus, e.g., crossarms, brackets and insulators.
Incident	Means any event that results in a reportable or notifiable injury, illness or fatality of people, or damage or loss to property, plant, materials and environmental or a financial burden.
Licence	Means the approval required by the Commonwealth, state and territory legislative and regulatory requirements to complete work in the ESI.
Lifting	Means pushing, pulling and manual handling tasks.
Maintenance	Means the identification and diagnosis of faults, cleaning, repairing or replacement of structures, hardware and electrical apparatus
Materials	Encompasses hardware, fittings and other items used for construction, installation and maintenance of the ESI network.
Network Standards	Network operator workplace requirements.
Notification	Notification (Notified) may include verbal, written, electronic or recorded information during or at the completion of work, which may be required to be completed in accordance with workplace requirements.
Personal protective equipment (PPE)	Means clothing, equipment and/or substances, which when worn or correctly used, protect parts or all of the body from foreseeable risk of injury or disease at work or in the workplace.
Powerline	Powerlines means electrical equipment, including overhead lines and underground cables, the conductors of which are live or can be made live.
Powerline Infrastructure	Infrastructure and associated equipment that includes, but is not limited to wires, anchors, towers, poles, stays, ground mounted equipment, tunnels and cavities.
Plant	Means any machinery, equipment and appliances that are provided with some form of self-propulsion that is ordinarily under the direct control of an operator, in the construction, installation, operation and maintenance of the ESI network. It includes but is not limited to: • Elevated work platform (EWP) • Cranes (Lifter Borer) • Excavator • Forklifts • Earth drilling rigs
Remote Control Systems	Refers to systems such as Supervisory Control and Data Acquisition (SCADA), Remote Administration Tools (RAT), and Annunciate dial-up (voice annunciation).
Safe Use	Safe use includes techniques, the inspection, care and maintenance of: • Personal protective equipment • Plant • Tools • Equipment.
Site Security	Definition as defined by Safe Work Australia. If a notifiable incident occurs, you must: • report it to the regulator immediately, and • preserve the incident site until an inspector arrives or directs otherwise. This doesn't prevent you helping an injured person or make the site safe.

Unplanned Event	Means an episode/s that are not expected to occur during the construction, installation, operation and maintenance of the ESI network that causes lost time, rework or an incident. It includes but is not limited to: • Breakdowns (plant and equipment) • Missing materials • Weather events • Network issues (Unplanned outage) • Traffic (vehicles, pedestrian, access issues) • Faulty equipment • Motor vehicle accident • Threatening customer • Hazardous animals/insects, tree/plants • Contact with live electrical apparatus • Chemical/fuel spills • Fire
Validate	Means to check, verify, or perform an action of quality control, either by the user or another user depending on workplace requirements.
Vegetation Control	Includes vegetation cutting and pruning techniques, and the use of chemicals to minimise regrowth. It takes into consideration the heritage, areas of particular significance, urban/rural, vegetation fire prone areas. It may include site rehabilitation.
Vicinity	Means a situation where it is unlikely that a person will, either directly or through any conducting medium (e.g., via mobile plant), come within the relevant safe approach distances.
Work Instruction	See 'Work Plan' for definition.
Work Permit/Approval	Means a document providing written permission for persons to undertake work activities in the ESI. Permits/Approvals may include but are not limited to: • Electrical access • Vicinity • Contractor • Testing • Live work • Confined space • Environmental • Safe working
Work Plan	These form part of the organisation's formal arrangements in the construction, installation, operation and maintenance of the ESI network. May include the following: • Plans • Drawings • Quality checklists • Testing and commissioning sheets • Workplace requirements (specific to the task) • Manufacturer specifications/instructions
Workplace Requirements	These are established by the organisation and may only apply to that organisation and includes: • Policies • Procedures • Standards • Instructions

IMPLEMENTATION ADVICE

Licensing /Regulation information

Licensing and registration requirements that apply to specific industries and VET, vary between each state and territory, and can regularly change. For the most up to date information regarding the regulatory authorities for the UET Transmission, Distribution and Rail Sector Training Package it is best to contact the relevant state or territory authorities in each jurisdiction.

In accordance with workplace requirements

The term used in the Units of Competency 'in accordance with workplace requirements' refers to contextualising the training and assessment requirements to reflect organisational policies, procedures, standards and instructions.

Two separate occasions

The term used in the Units of Competency's performance evidence 'on at least two separate occasions' refers to structured assessment conducted by an RTO.

Separate occasions ensures a timeframe between assessments, the timeframe is based on the complexity of the Unit of Competency and assessment evidence required.

Equivalency/ Or Equivalent

The term Equivalency/ Or Equivalent has been used within the UET Training Package in addressing the prerequisite unit requirements of a unit or the entry requirements of a qualification.

"Or equivalent" means a situation where a learning framework and outcome from one period of time is treated as equal to a current training outcome, e.g., a pre-AQF state or enterprise-based certificate of proficiency is treated as equal to a current qualification. The primary purpose of the Equivalency rule is to ensure that existing trade qualified workers trained under previous systems/qualifications are not unfairly treated in the current AQF environment.

It is important to note, that the specifics of the qualification structure may not be the same, but the trade qualification outcomes are treated as equal by the network operators.

Unit Implementation Advice	
UETDRAI004 Treat poles	
Treatment applications of poles may include:	- chemical treatment for the prevention of pole deterioration through the insertion of chemical preservatives (i.e., Polesaver) into the base of wooden poles - fungicide treatment - pesticide treatment - polymer wrap (steel poles) - bitumen wrap - glass fibre reinforced plastic (GPP) - steel cuff - galvanisation treatment for prevention of corrosion (thermic, paint)
UETDRCD001 Work safely around powerlines as an ordinary person	
Powerline definition:	Powerlines means electrical equipment, including overhead lines and underground cables, the conductors of which are live or can be made live.
Powerline infrastructure definition:	Infrastructure and associated equipment that includes, but is not limited to wires, anchors, towers, poles, stays, ground mounted equipment, tunnels and cavities.
Calling for help may include the following:	000 Emergency Plus app
Further information on techniques for exiting vehicle/plant:	
Basic electrical principles may include:	- Voltage, Current and Resistance - There is no requirement to calculate the relationship (Ohms Law)
Powerline identification tools may include:	www.Lookupandlive.com.au www.byda.com.au
UETDRDU009 Install, test and verify distribution underground cable installations	
Maintenance may include:	the removal, repair and replacement of electrical equipment encompassing "like for like" and associated hardware as well as the termination and/or connection of this equipment according to requirements and the temporary installation of services and associated equipment. It also encompasses the identification of faults; the pre-commissioning tests involving the equipment/system and the interpretation of these tests against agreed specifications
UETDREL001 Apply environmental requirements	

Environmental impacts may include but are not limited to:	• emissions to air • releases to/of water • releases to land • vibration and noise • disposal of waste • contamination of land • impact on agricultural communities (livestock, crops etc) • impact on communities • destruction of habitat • use of energy sources • waste generation processes and technologies • impact on culturally significant sites • the implementation of emergency responses
Environmental management documentation may include but is not limited to:	• information on applicable environmental laws or other requirements • complaint records • training records • process operational log • inspection, maintenance and calibration records • relevant contractor and supplier information • incident reports • information on emergency preparedness and response • records of significant environmental impacts • chain of custody and compliance records • audit results • management reviews
UETDREL003 Identify and apply controls for alternate supplies on the distribution network	
Alternate supplies may include but are not limited to:	• generation sources • photovoltaic (PV) systems • wind • engine driven • turbine • storage sources • uninterruptible power supply (UPS) • engine driven • turbine • electric vehicles • fuel cells • battery systems • flywheels
Isolation points may include:	• switching
Earthing may include:	• access permits earths • working earths • boxing in
UETDRIS010 Install and maintain low voltage overhead services	
Work requirements include knowledge of:	• limitations of LV distribution mains protection systems
Training to comply with:	• AS 4741-2010 Testing of connections to LV electricity networks
UETDRIS014 Install and replace energy meters and associated equipment	
Meters include:	• induction disc energy meters, electronic energy meters, smart meters, maximum demand meters, electronic summators, time switches and relays, provided that they are basic direct-wired instruments • current transformer and HV metering are not included
UETDRIS018 Perform low voltage field switching operation to a given schedule	
Links may also be known as:	• disconnectors • isolators • secondary Isolations
UETDRIS028 Implement and monitor environmental policies and procedures	
Incidents of environmental impact may include:	• emissions to air; releases to/of water; releases to land; disposal of waste; contamination of land; impact on communities; destruction of habitat; use of energy sources; waste generation processes and technologies; extraction of water; changes to water temperature; changes to water salinity; regulation of water flow; land use; and may involve the implementation of emergency responses

Environmental management	information on applicable environmental laws or other requirements; complaint records; training records; process information; process
documentation may include:	operational logbooks; inspection, maintenance and calibration records; relevant contractor and supplier information; incident reports; information on emergency preparedness and response
UETDRIS029 Implement and monitor organisational WHS/OHS policies, procedures and programs	
Hazardous events include:	accidents, fire and emergencies such as chemical spills or bomb scares procedures for dealing with them include evacuation, chemical containment and first aid procedures
Workplace procedures for:	risk assessment and management; inspection; housekeeping; participative arrangements, either general or specific to WHS/OHS training and assessment; specific hazard policies and procedures; WHS/OHS information; WHS/OHS record keeping; maintenance of plant and equipment; purchasing of supplies
UETDRIS031 Maintain insulating oil	
This unit relates to:	the filtering, sampling and testing of transformers, switchgear and cable insulating oil and may include tests for dielectric strength and moisture
Equipment may include:	(pump) filter press, hoses, pipes, soil kits, sample bottles, storage vessels etc
UETDRMP016 Perform elevated work platform rescue	
EWP retrieval systems refers to:	- back-up systems - back-up retrieval systems - emergency control systems
UETDRRC004 Install and replace energy meters and associated equipment in a very remote community	
Meters include:	- induction disc energy meters, electronic energy meters, smart meters, maximum demand meters, electronic summators, time switches and relays, provided that they are basic direct-wired instruments - current transformer and HV metering are not included
UETDRRC006 Perform low voltage electricity network switching in a very remote community	
Low voltage (LV) switching	the operation of circuit breaking and isolation devices from a given switching schedule as it relates to LV distribution systems in field
operations involving:	- situations but also includes paralleling in accordance with the switching schedule - operation of circuit isolation devices associated with energy reticulation systems/networks is confined to LV systems in field situations which are performed in accordance with a switching schedule and established procedures
Authorisation authority refers to:	an appropriate person designated as such by regulations, codes or enterprise arrangements who is responsible for coordinating and directing switching activities in consultation with field operators
UETDRRT001 Install overhead rail traction configurations	
Types of track configurations may include:	overlaps, crossovers, turnouts, 15–90-degree crossings, diamond crossings, insulated crossings, train/tram crossing, tram frogs and sidings
Plant may include:	elevating work platforms (EWPs), road rail traction height access equipment or ladder
Testing and recording equipment include:	voltage detectors, volt meters, insulation resistance testers, field intensity testers, height and stagger gauge
UETDRRT002 Install overhead traction components and equipment	
Types of traction wire support structures may consist of:	portals, pull-off, drop verticals, head spans, cross spans, tramway support networks, cantilever and tunnel/bridge arms
Types of traction components may include:	droppers, cantilever hardware, portal hardware, steady spans hardware, steady spans, insulators, pull-off, tension regulators, section insulators, neutral sections, tramway frogs, pendulums, crossing pans and hangers, in-span feeders, knuckles (insulated and non-insulated) and cross-arms
Types of conductors may include:	high definition (HD), computer-aided drafting (CAD) and tin bearing copper, aluminium, steel, aluminium conductor steel reinforced (ASCR), and copper cover steel
Types of wiring arrangements include:	single wire/tram systems, simple and compound catenary systems
Plant may include:	ladders, elevated work platforms (EWPs), winches, specialist tension string equipment, cable trailers, work trains, rail mounted overhead wiring equipment/vehicles and road rail mounted overhead wiring equipment/vehicles

Ancillary equipment may include:	• booster and auxiliary transformers, transformers, air-break switches, isolation switches, switches and surge diverters
UETDRRT003 Install rail traction bonds	
Earthing and bonding systems may be:	• permanent or temporary
Types of conductors may include:	• steel, rail, copper, aluminium and steel, bare and sheathed cables, single core, stranded and flexible
Cables may be:	• surfaced mounted, buried and enclosed
Permanent jointing and terminating materials include:	• polymeric tape materials, polymeric heat shrink and covering materials, exothermic welds, crimped and bolted connections
UETDRRT004 Install traction overhead wiring systems	
Types of conductors may include:	• high definition (HD), computer-aided drafting (CAD), tin bearing and magnesium copper, aluminium, steel, aluminium conductor steel reinforced (ACSR), insulated screened and unscreened cable and pilot and control cables
Materials may include:	• porcelain, glass, ceramic, fibre glass and composite insulators, steel, brass, stainless steel, neoprene, copper, cast and galvanized fittings, and parafil rope/cable
Equipment may include:	• ladders, drums, pulleys, hooks, line grips, tensioning devices, ropes, slings, hydraulic/manual crimping and cutting tools, specialised tools and dynamometers
Conductors and support wires include:	• droppers wire, catenary wire, contact/trolley wire, earth wire, feeder wire, drape/potential jumper wire, stay wire, cross-span, networks and head span wire
Associated equipment to conductors may include:	• registration arms, midpoint anchors, section insulators, neutral sections, supports, cantilevers, portals, drop verticals, surge diverters and tensioning devices
Plant may include:	• elevated work platform (EWP), winches and capstans, specialist tensioning stringing equipment, cable trailers and drum stands, rail and road rail mounted overhead wiring vehicles
Profiling includes:	• sag, tension, encumbrances, offsets, cants and registration which involves horizontal and vertical calibration of the contact wire or trolley wire to a design height and stagger in reference to the running rail
UETDRRT008 Maintain overhead rail traction configurations	
d.c. switchgear and other equipment include but are not limited to:	• direct current circuit breakers, rectifier transformers, rectifiers, invertors, isolators and links, harmonic filters, negative reactors, energy dissipating resistors (EDR's) and rail earth contactor
Associated equipment may include:	• d.c. feeders, surge arresters, isolating links, busbars, cables, cable supports, pits and enclosures, control wiring of protection/alarm systems, metering, supervisory interface and cabinets
Test equipment may include:	• multimeters, low resistance high current, megger tester, ammeter, voltmeter and 1500 V dropout test sets
Confined spaces may apply to:	• pits, cable tunnels, false floors and cable basements
Protection systems may include:	• Buchholz, frame leakage, overcurrent, earth leakage, reverse current, Delta I and diode protection
UETDRSB009 Install high voltage plant and equipment	
Substation high voltage plant and equipment may include:	• transformers and instrument transformers, auxiliary transformers, surge arrestors, wave traps, circuit breakers, capacitor banks, disconnectors, earth switches, ripples filters, static VAR compensators, gas insulated switchgear, fault throwers, resistor banks, neutral earthing transformers and reactors, high current DC switchgear and equipment
Pre-commissioning checks and measurements may include:	• insulation resistance, winding resistance, dielectric dissipation factor, winding ratio, vector group, low voltage excitation, continuity, trip and close checks, gas pressure checks, contact timing and other checks and measurements as required by the manufacturer
UETDRSB010 Maintain capacitor bank equipment	
Checks may include:	• inspection and cleaning, identification and replacement of defective/unserviceable elements/cans, unbalance current/voltage tests, functional tests and control/alarm system checks
UETDRSB011 Maintain high current d.c. equipment and switchgear	

d.c. switchgear and other equipment includes but is not limited to:	d.c. circuit breakers, rectifier transformers, rectifiers, invertors, isolators and links, harmonic filters, negative reactors and energy dissipating resistors (EDR's) and rail earth contactor
Associated equipment may include:	d.c. feeders, surge arresters, isolating links, busbars, cables, cable supports, pits and enclosures, protection/alarm systems, control wiring, metering, supervisory interface and cabinets
Associated components may include:	main and auxiliary contacts, holding coils, contactor, busbar fingers, diodes, heatsinks, capacitors, fuses, metering, shunts, resistors banks and resistor bank housing
Test equipment may include:	multimeters, low resistance high current, megger tester, ammeter, voltmeter, 1500 V drop out test set and feeler gauge
Confined spaces may apply to:	pits, cable tunnels, false floors and cable basements
UETDRSB012 Maintain high voltage circuit breakers	
This unit is in relation to:	the maintenance of HV circuit breakers in power system substations and switching stations
Circuit breaker types may include:	bulk oil, small oil volume, air blast, vacuum, air-insulated and gas-insulated SF6
Associated control circuits include:	operating mechanisms, solenoids, spring, hydraulic and pneumatic drives, contactors, AC heaters, tripping and closing circuits and control wiring
Diagnostic checks may include:	insulation resistance, contact resistance (dynamic and static), timing (in-service and out of service), gas pressure, air pressure, gas density, oil pressure and minimum operate checks
Specialised tools may include:	insulation resistance test sets, contact resistance tester, trip and close coil testers, manufacturer's specific tools and sequence timing equipment, switching stick (also referred to as switch stick, isolated stick, isolated pole or hotstick)
UETDRSB013 Maintain on load tap changers (OLTC)	
Checks may include:	mechanism alignment, contact erosion, component replacement, inspection and cleaning, disassembly and re-assembly, functional tests and operating mechanism checks. It includes the testing, filtering or replacement of diverter switch oil
UETDRSB015 Maintain static var compensators (SVC)	
Checks may include:	inspection and cleaning, identification of defective/unserviceable components, functional tests and control/alarm system checks
UETDRSB016 Maintain synchronous condensers	
Checks may include:	cooling water resistivity, gas pressure levels, residual gas content, winding resistance, insulation resistance and control circuit functionality
UETDRTO010 Maintain energised transmission lines using barehand techniques from a helicopter	
Training to comply with:	AS 5804 High Voltage Live Working parts 1, 3 and 4
UETDRTO011 Maintain energised transmission lines using live work barehand techniques	
Training to comply with:	AS 5804 High Voltage Live Working parts 1, 3 and 4
UETDRTS033 Commission and maintain network protection and control systems	
Protection systems may include but are not limited to:	Circuit breaker fail protection, master-controlled earth fault, inter-tripping, auto reclose/blocking, synchronising, line protection, load shedding, voltage control protection, reverse power, and anti-islanding.
UETDRVC007 Control vegetation using pruning techniques	
This unit relates to:	the pruning principles and techniques to perform vegetation clearing activities in accordance with AS 4373 Pruning of Amenity Trees as far as practical

ATTACHMENT A: QUALIFICATION MAPPING

Separate Mapping Document to be read in conjunction with this document

Mapping information for Qualifications can be found in the UET Transmission, Distribution and Rail CVIG Mapping Information Attachments A–C.

ATTACHMENT B: SKILL SETS MAPPING

Separate Mapping Document to be read in conjunction with this document

Mapping information for Skill Sets can be found in the UET Transmission, Distribution and Rail CVIG Mapping Information Attachments A–C.

ATTACHMENT C: UNITS OF COMPETENCY MAPPING

Separate Mapping Document to be read in conjunction with this document

Mapping information for Units of Competency can be found in the UET Transmission, Distribution and Rail CVIG Mapping Information Attachments A–C.

ATTACHMENT D: COMPANION VOLUME IMPLEMENTATION GUIDE

Quality Assurance Process

The Companion Volume Implementation Guide (CVIG) is initiated in accordance with the requirements of the Training Package Organising Framework 2025, effective from 1 July 2025.

The steps in the Quality Assurance (QA) process as they apply to the CVIG are:

1. The CVIG is developed by PSO in accordance with Standards 11 and 12:
 - **Standard 11:** A quality assured CVIG produced by the Training Package developer is available at the time of endorsement and complies with the CVIG template
 - **Standard 12:** Training Package developers produce other quality assured companion volumes to meet the needs of their stakeholders as required
2. The Implementation Guide is designed to assist assessors, trainers, training providers and enterprises to deliver nationally endorsed industry training packages.
3. Content is validated and amended as part of the validation stage in the implementation of the Standards.
4. The CVIG is submitted for QA with the Training Package changes, to ensure it is available at the time of endorsement.
5. The CVIG is reviewed by PSO to ensure mapping tables are updated and any additional information is added as required. Proposed changes are subject to industry validation as part of the endorsement process.
6. Where changes are made to a Training Package and minor amendments are required for the CVIG, PSO includes amendments as part of the validation phase and incorporates the reference in the version control modification history.

ATTACHMENT E: COMPANION VOLUME IMPLEMENTATION GUIDE TEMPLATE

Companion Volume Implementation Guide template

Overview information Mandatory field	• Version control and modification history. • List of AQF qualifications, skill sets and units of competency in the Training Package. • Unit mapping information, including an equivalence table linking old to new units of competency. • Qualification mapping information, including an equivalence table linking old to new qualification. • List of imported and pre-requisite units in the Training Package. • Key work and training requirements in the industry. • Regulation and licensing implications for implementation. • Where units that form part of skill sets include pre-requisite units, list these pre-requisite units.
Implementation information Mandatory field	• Information on the key features of the Training Package and the industry that will impact on the selection of training pathways. • Industry sectors and occupational outcomes of qualifications. • Explanation of any mandatory entry requirements for qualifications and skill sets. • Pathways advice, particularly in line with requirements of the AQF Pathways Policy. • Access and equity considerations. • Foundation Skills. • Advice on any health and safety implications in the industry. • Advice about a skill set's relationship with a qualification/s. • Resource and equipment lists relevant to the Training Package. • Legal considerations for learners in the workplace/on placements. • Other information relevant to implementation of the Training Package.
Links Optional field	Resources supporting the companion volume implementation guide. • Other companion volumes as required including: • Learning strategies guidance, describing the diversity of learners and learning strategies • Knowledge guidance, identifying contextual information such as knowledge requirements and resources • Assessment strategies, providing guidance on implementation of assessment requirements. • Training Package developer's quality assurance process for companion volumes.