



# ELECTRICAL SAFETY AUTHORISATIONS

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**Authorisations Manual**

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**Electrical Safety & Performance**

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**November 2019**

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## 1.0 INTRODUCTION

### 1.1 Purpose

This manual has been developed for workers and their managers to outline the purpose of authorisation functions, detail the various authorisation functions requirements for work on or near the network, the process of becoming authorised and the requirements to access the network.

*Note: This document is designed to be viewed on an electronic device to enable enlarging of small print and accessing of hyperlinks throughout the text.*

#### 1.1.1 Work 'on or near'

Only persons authorised persons, instructed persons or persons under the appropriate level of supervision of an authorised person may work on or near Endeavour Energy's network.

- **Authorised person**  
*A person with technical knowledge or sufficient experience who has been approved, or who has the delegated authority to act on behalf of Endeavour Energy, to perform the duty concerned.*
- **Instructed person**  
*A person adequately advised by an Authorised Person or who has sufficient training and experience in the safety requirements for the work being undertaken to enable them to avoid the dangers which electricity may create.*

#### Ordinary Person Clearance

Persons without sufficient training or experience to enable them to avoid the dangers which electrical apparatus may create must maintain at least 3 metres from exposed electrical network apparatus up to 132kV

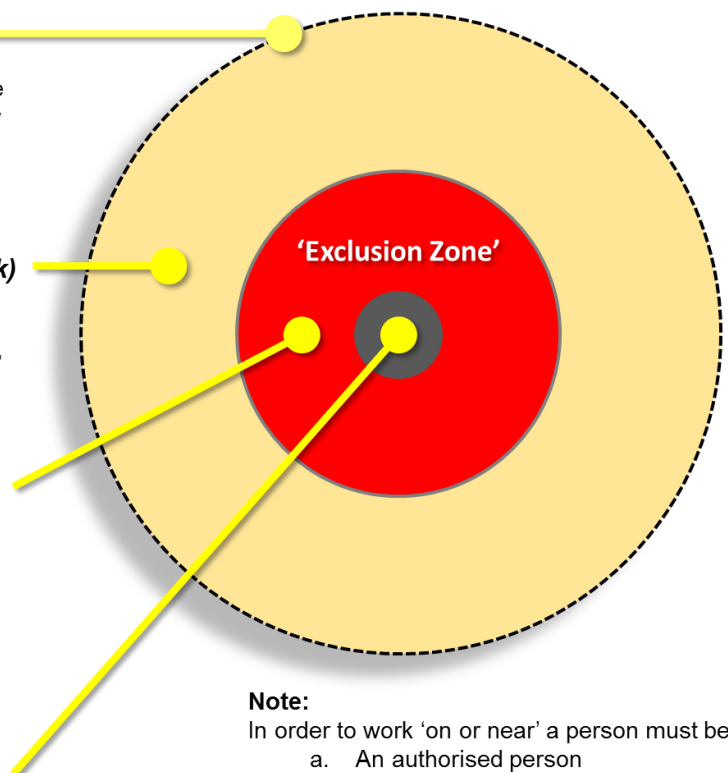
#### Working Near (within 3 metres of the network)

A situation where there is a reasonable possibility of a person, either directly or through any conducting medium, coming within the relevant safe approach distance or beyond a substation access control point

#### Working On (within Safe Approach Distance)

Persons shall not allow any portion of their bodies or any object which they are in contact with (except when using approved equipment for testing, operating or working on live electrical apparatus) to come within the relevant safe approach distances as detailed in Endeavour Energy Electrical Safety Rules Table A (the 'exclusion zone') of live exposed electrical apparatus.

#### Working On (in contact with the network)

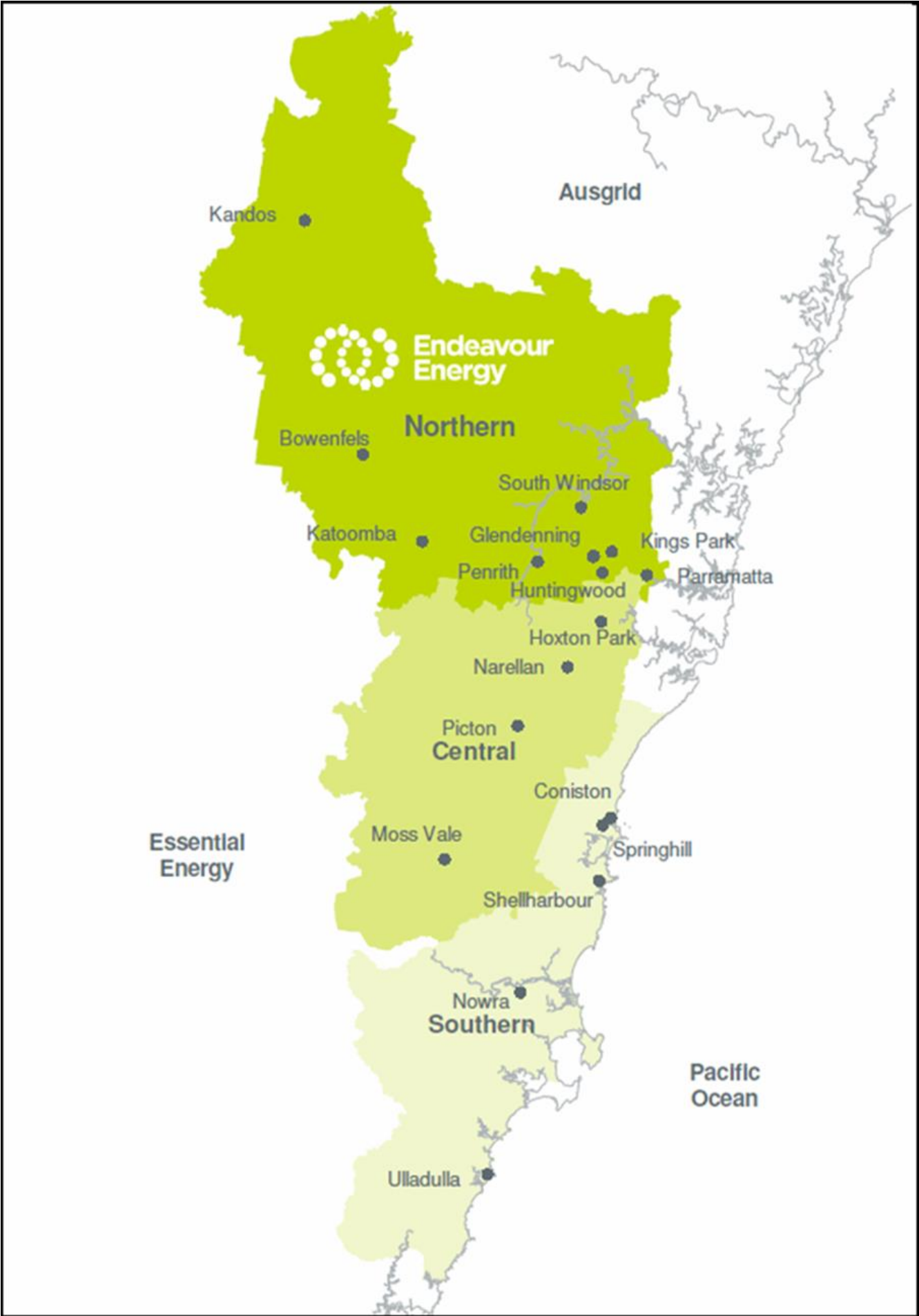


**Note:**

In order to work 'on or near' a person must be:

- An authorised person
- An instructed person
- Under the appropriate level of supervision of an authorised person

1.1.2 Endeavour Energy Franchise Area





## 1.2 Safety management

Authorisation functions are developed as part of an overall safety management system. They provide assurance that individuals working on or near the network have the necessary knowledge and skills to perform particular tasks (or functions) safely.

The authorisations framework incorporates various functions that define the competency requirements for performing tasks on or near the network. These are broken into categorised profiles such as switching, permit recipients, substation access requirements and trade-based role outcomes, etc.

The authorisations framework additionally contains specific functions deemed as having a significant impact on network integrity, high risk tasks or requiring a high level of ongoing competency management.

The competency requirements are designed to provide assurance for the ability of an individual to adequately identify, assess and control electrical safety hazards. They do not, however, provide assurance of the quality of work outcomes.

The authorisations framework is designed to assist the understanding of the competency requirements required for various tasks. It does not substitute the necessary oversight managers must have over their workers when working on or near Endeavour Energy's network.



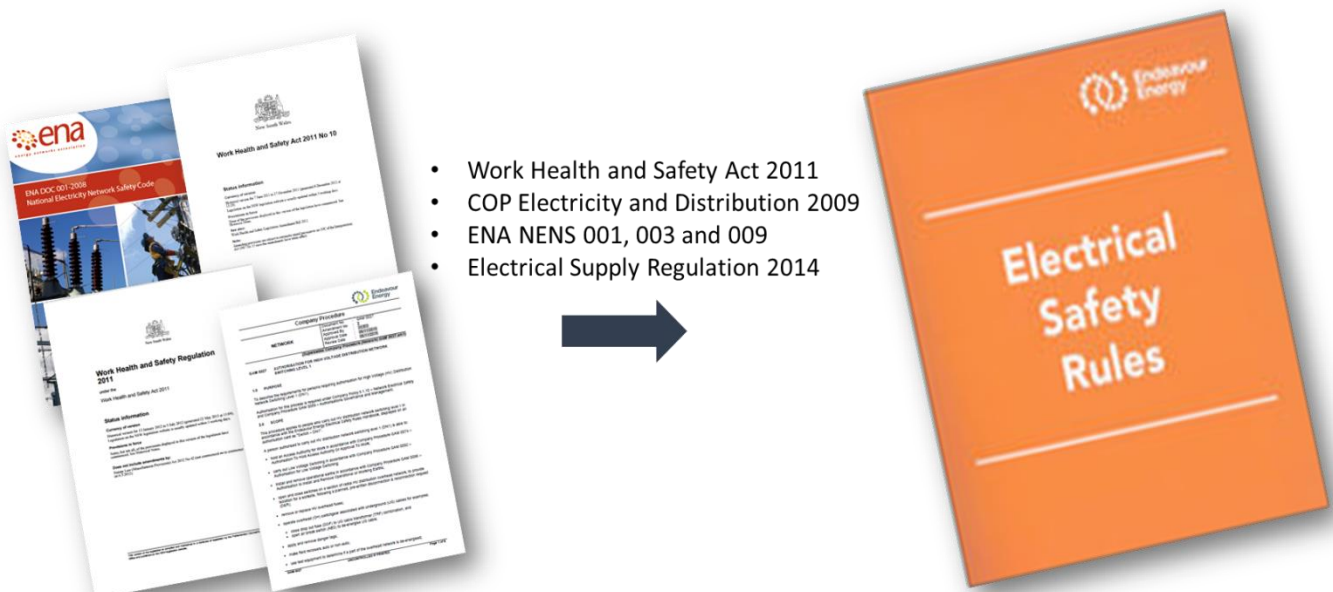
### 1.3 Electrical Safety Rules

Authorisation functions are developed in accordance with the Endeavour Energy Electrical Safety Rules as detailed within *Company Procedure GAM 0089 Authorisations Governance and Management*.

Endeavour Energy establishes and maintains Electrical Safety Rules (ESR) that form part of its Electricity Network Safety Management System, produced to meet the requirements of the *Electricity Supply (Safety and Network Management) Regulation 2014*.

These rules provide the minimum safe working practices for persons, when working or testing on or near electrical apparatus associated with the distribution of electricity.

It is the responsibility of the authorised persons working on or near the network to ensure that they understand and apply the requirements of the ESRs.



- [Endeavour Energy Electrical Safety Rules July 2016](#)
- [Endeavour Energy Electrical Safety Rules associated procedures](#)

If you have an enquiry about electrical safety, please contact:  
[electrical.safety@endeavourenergy.com.au](mailto:electrical.safety@endeavourenergy.com.au)

## 1.4 Mandatory asbestos awareness training

All authorisations where asbestos containing material is likely to be encountered require the worker to undertake a basic asbestos safety introduction e-learning module.

This module is free and will take between 20-30 minutes to complete. Applicants will need to print a copy of the completed certificate to submit with their authorisation application.

For the free asbestos awareness e-learning module, please visit:  
<https://lms.energyspace.com.au/mod/scorm/view.php?id=155353>

Please log in as a guest and follow the instructions below:

The image consists of two side-by-side screenshots of the Energy Space LMS interface. The left screenshot shows the login page with the 'energy space | online resources' header. Below the header is a 'LOG IN' section with fields for 'Username' and 'Password', a 'Remember username' checkbox, a 'LOG IN' button, and links for 'Forgotten your username or password?' and 'Cookies must be enabled in your browser'. At the bottom of the login section is a 'LOG IN AS A GUEST' button, which is circled in red. The right screenshot shows the 'ASBESTOS SAFETY MODULE' page. The title 'ASBESTOS SAFETY MODULE' is at the top in a red banner. Below the title is a red button with the text 'Click Here' circled in red. The page contains text about the asbestos safety module and a note about consulting local workplace authority. At the bottom of the page is a red banner with the word 'CALENDAR'.

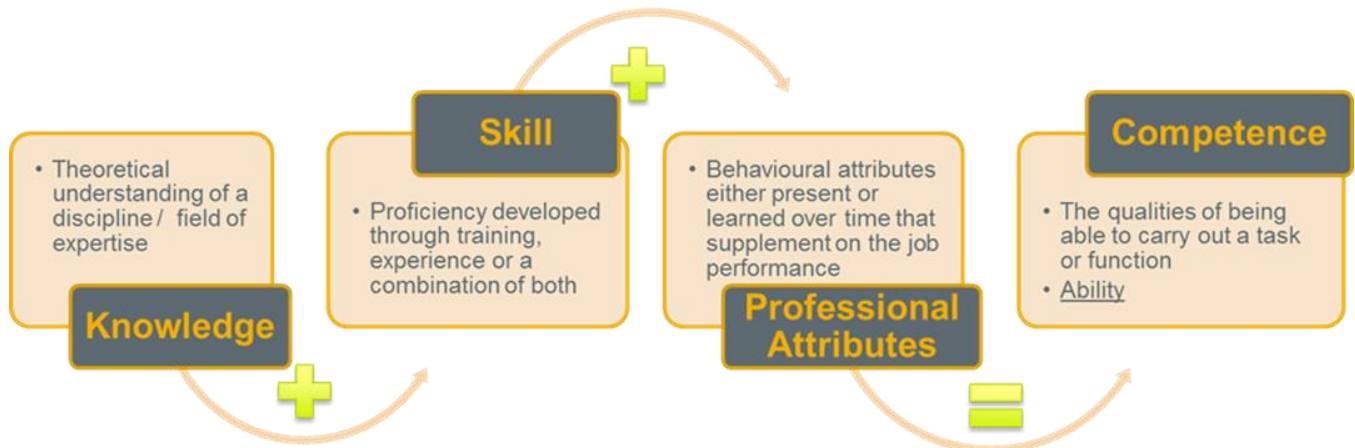


## 2.0 PRINCIPLES OF AUTHORISATION

### 2.1 Competency

Each authorisation function has a series of competency requirements that must be satisfied. The specific competency or suite of competencies required for authorisation functions is explained further within Schedules 1-11.

Competency essentially means the consistent transfer and application of knowledge and skill to the standard of performance ability required in the workplace. Competency may be demonstrated by successful completion of theoretical and/or practical assessment of skills as nominated in the relevant procedure. Contributing factors that supplement technical competence include professional and personal attributes which should be viewed holistically in terms of competence rather than in isolation.



Competency recognition may be applicable for any authorisation function subject to the specifications, review and endorsement of the Manager Electrical Safety & Performance. Such recognition must be determined through either recognition of current competency (RCC) and/or recognition of prior learning (RPL).

RCC and RPL assessments may be a formal competency assessment undertaken by a Registered Training Organisation (RTO) to align with national units of competency, or alternatively for non-formal training outcomes, an assessment to determine the alignment of current competency with specified learning outcomes.

The Manager Electrical Safety & Performance will specify and review training courses and competency outcomes required to provide the required competencies for each individual authorisation.





## 2.2 Line manager support of competency

It is a requirement under NSW Work Health and Safety obligations that a person is competent to perform the tasks they are employed to undertake. Endeavour Energy's electrical safety authorisation framework provides a competency management process for workers to enable specific tasks relating to work on the network to be carried out.

It is the line manager's responsibility to satisfy themselves that the worker has received appropriate training and is competent to hold an authorisation function initially, and has also maintained the necessary competency each year when the authorisation is renewed.

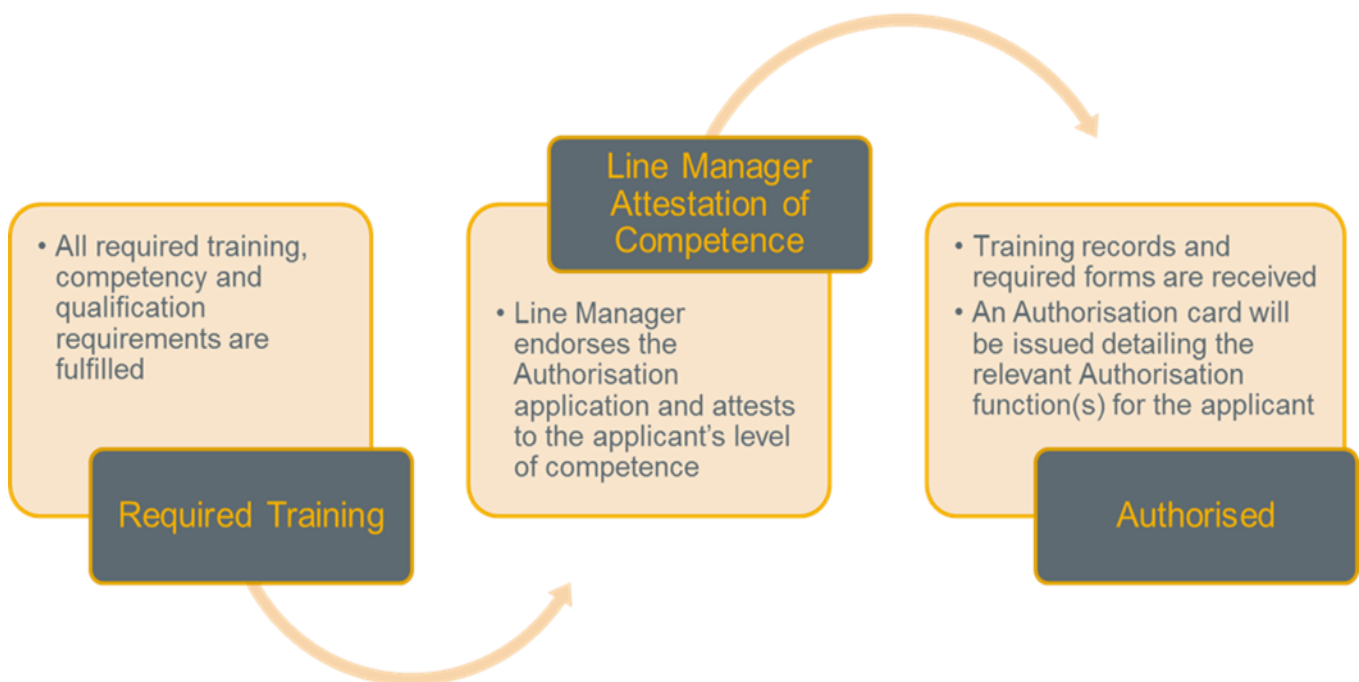
There are a range of requirements specified for each authorisation function. These generally include a qualification, certain specialised initial training courses, and a range of refresher training that needs to be completed each year.

In addition to training, managers must also attest to the competency of workers to carry out various tasks. Specifically, managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks of significant complexity on the network (relevant to the specific functions to be held) in order to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

There are various ways that a manager may satisfy themselves that their staff have maintained competency such as (but not limited to):

- having a comprehensive oversight over work schedules/programs
- regular workplace and onsite interactions
- documenting safety toolbox talks, collating workplace forms and other documented evidence
- independent 3rd party references from a previous employer/supervisor
- verification of competency assessments (VOC)

This is a three stage process where an individual completes all necessary required training in addition to holding any required qualification(s), the individual's line manager attests to the competence of the individual, and finally, submits the necessary documentation for the authorisation to be issued.



## 3.0 TRAINING REQUIREMENTS

### 3.1 Endeavour Energy Technical Training Delivery

Endeavour Energy is a registered training organisation (RTO) that offers qualifications and national unit of competency outcomes such as Cardiopulmonary Resuscitation (CPR), Low Voltage Rescue, First Aid and various rescue training that is required for authorisation. These annual refresher units that are necessary for authorisation are offered by Endeavour Energy to external candidates for a fee.

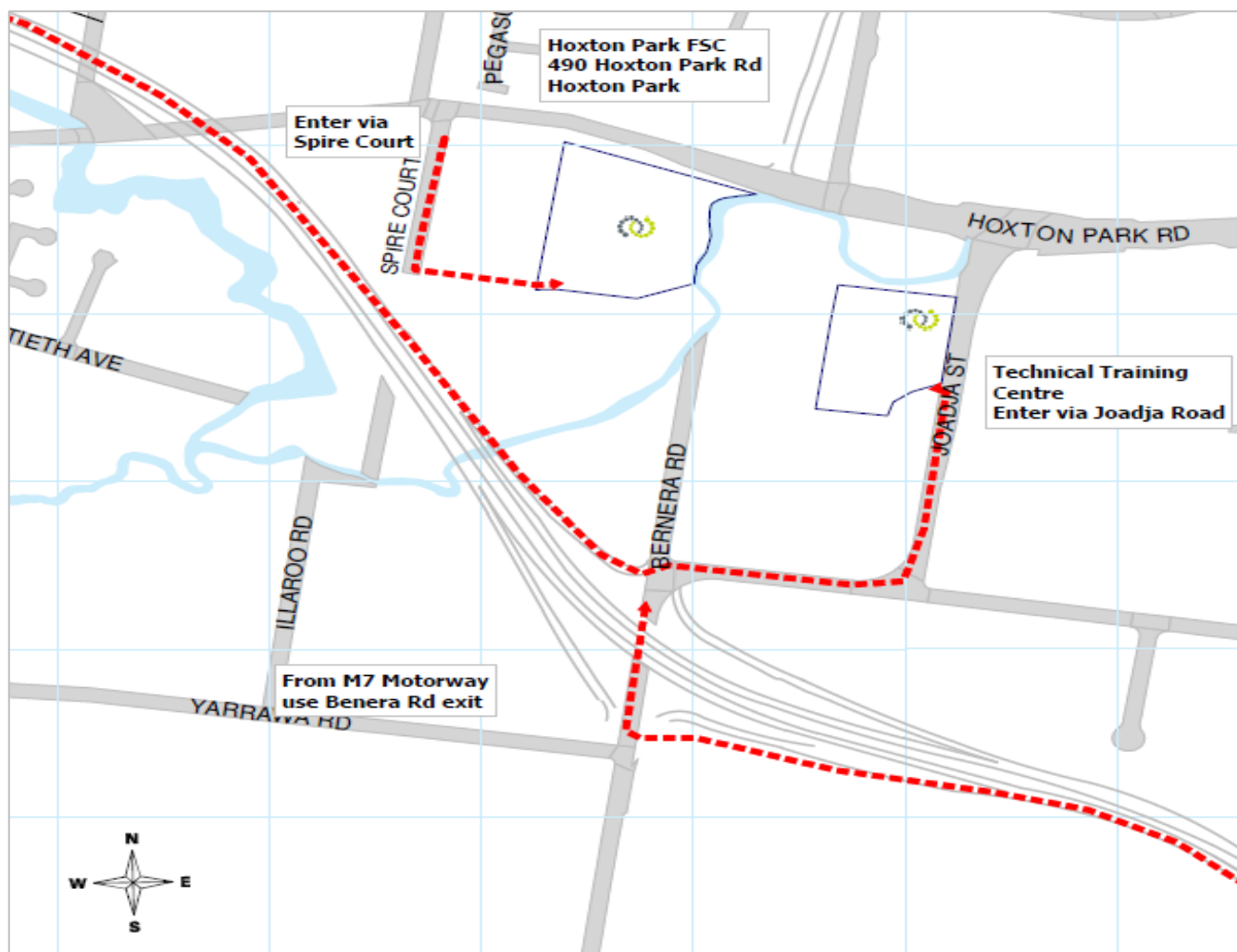
Endeavour Energy also provides specialist training courses, these courses incorporate areas where organisational context is required at a high level and particular subject matter expertise is required. It should be noted that these training courses cannot be delivered by any other provider and are offered by Endeavour Energy free of charge. The training courses offered exclusively by Endeavour Energy's Technical Training Delivery Branch include the following:

- Initial Electrical Safety Rules training
- Substation entry training
- Access Authority training
- LV and HV switching training

Contact:

- Email: [technical.training@endeavourenergy.com.au](mailto:technical.training@endeavourenergy.com.au)
- Phone: 9853 7522

Endeavour Energy Technical Training Delivery is located at 109 Joadja Road Prestons 2171 NSW.



### 3.2 External Registered Training Organisations (RTOs)

Within Schedules 1-11 shown further in this document, certain authorisation functions require national unit of competencies in order to gain the necessary training for authorisation such as CPR, Low Voltage Rescue, First Aid, etc.

This training is more general in nature and in most cases national standards of training are available such as a recognised qualification or unit of competency outcome. There are a range of RTOs that can offer qualifications and national unit of competency outcomes that are required for authorisation.

These units of competency and a list of available training providers can be found at <http://training.gov.au/>. This training largely relates to rescue and resuscitation type requirements within the electricity supply industry under the 'UET12 - Transmission, Distribution and Rail Sector Training Package' - <http://training.gov.au/Training/Details/UET12>

### 3.3 Endeavour Energy Accredited Registered Training Organisations (RTOs)

Endeavour Energy facilitates an arrangement where external training providers are accredited to deliver training as a third party provider to employees of contracted companies (external) to work on or near the company's network.

Specific training is managed through this process where a heavy reliance of industry subject matter expertise is required however; there are no national units of competency available.

At present, Endeavour Energy has non-exclusive arrangements with:

- vegetation management/arboriculture specialists in order to deliver Close Approach Vegetation Control (CAVC) training and assessment
- civil specialists to undertake verification of competency (VoC) assessments on personnel operating powered excavation plant/equipment
- RTOs with capability and experience in the electricity supply industry to deliver ESR refresher training to Accredited Service Providers (Initial ESR may only be delivered by Endeavour Energy)



### 3.3.1 Accredited RTOs (as at September 2017)

RTO name		ESR Refresher	CAVC	Excavation VOC
<b>Endeavour Energy</b> 02 9853 7522 <a href="http://www.endeavourenergy.com.au">www.endeavourenergy.com.au</a>		Accredited to deliver		Accredited to deliver
<b>Coates / Admire Workplace Safety</b> <a href="http://www.coateshire.com.au/training/">www.coateshire.com.au/training/</a> (02) 9612 0200 <a href="http://admireworkplacesafety.com.au/">http://admireworkplacesafety.com.au/</a> (02) 4869 5663		Accredited to deliver		
<b>IAC</b> 1300 887 317 <a href="http://www.iacsafetyservices.com.au/">www.iacsafetyservices.com.au/</a>		Accredited to deliver		Accredited to deliver
<b>Pipeline Training Australia</b> (02) 9679 0066 <a href="http://www.pipelinetraining.com.au/">www.pipelinetraining.com.au/</a>		Accredited to deliver		Accredited to deliver
<b>TAFE – Hunter Institute</b> 131225 <a href="http://www.hunter.tafensw.edu.au/pages/default.aspx">www.hunter.tafensw.edu.au/pages/default.aspx</a>		Accredited to deliver		
<b>TAFE – (SWSI)</b> (02) 9643 4500 <a href="https://swsi.tafensw.edu.au/">https://swsi.tafensw.edu.au/</a>		Accredited to deliver		
<b>Enersafe Training</b> (02) 8602 2000 <a href="https://www.enersafe.com.au/">https://www.enersafe.com.au/</a>		Accredited to deliver		
<b>NECA Training</b> (02) 9188 4424 <a href="http://www.necatrainng.com.au">www.necatrainng.com.au</a>		Accredited to deliver		
<b>Essential Energy Training Services</b> 13 23 91 <a href="http://www.essentialenergy.com.au">www.essentialenergy.com.au</a>		Accredited to deliver		
<b>Aurecon Group</b> (08) 8919 9777 <a href="https://www.aurecongroup.com/">https://www.aurecongroup.com/</a>		Accredited to deliver		
<b>Power Safety Training</b> <i>(formerly Workspace Training)</i> (07) 3288 8800 <a href="http://www.powersafetytraining.com.au">www.powersafetytraining.com.au</a>		Accredited to deliver	Accredited to deliver	
<b>Interlink Training</b> 1300 731 669 <a href="http://www.interlinktraining.com.au">www.interlinktraining.com.au</a>			Accredited to deliver	
<b>Thoughtplanters</b> +64 9522 8711 <a href="https://www.thoughtplanters.com/">https://www.thoughtplanters.com/</a>			Accredited to deliver	
<b>CTC Safety</b> 02 9979 7888 <a href="http://ctcsafety.com.au/">http://ctcsafety.com.au/</a>		Accredited to deliver		Accredited to deliver



## 4.0 REQUIREMENTS FOR SUPERVISION

### 4.1 General

A person who is not authorised to undertake a particular task must only undertake that task where they are under the appropriate level of supervision (as determined by risk assessment) of a person who is authorised to carry out the function.

This supervision is to be such that the non-authorised person remains under the appropriate level of supervision of the authorised person for the duration of the task requiring authorisation. Numbers to be supervised must be manageable.

The level and pattern of control exercised over a person who does not hold the required authorisation must be identified through risk assessment, and can be classified under the following:

- direct supervision – this includes dedicated oversight of all activities performed whilst conducting direct supervision with the supervising worker remaining in direct visual and audible contact at all times
- general supervision – a situation in which the supervising worker is not constantly reviewing the un-authorised worker but remains in frequent face-to-face contact during the task/s to confirm that they are working within the requirements of the ESRs. The supervising worker must be contactable for assistance or instruction. Required in all cases where the person being supervised is not authorised to work on or near Endeavour Energy's network.
- broad supervision – broad supervision is only suitable for workers who have previously demonstrated an ability to conduct autonomous work. In this situation, the supervising worker need only make occasional face-to-face contact but should continue to provide instruction.



General Information on apprentice supervision:

[NSW Department of Industry Supervising your apprentice or trainee](#)

## 5.0 ACCESSING THE NETWORK

### 5.1 Network Access Card




In order to provide evidence of appropriate authorisation, a network access authorisation card must be issued listing the specific functions a person is authorised to carry out.

The functions will be listed on the back of the card (a complete list of authorisation functions is shown further in this document).

Authorisation functions exist within a hierarchy. In some cases, higher level authorisations provide authorisation to carry out other functions. It should be noted that if a higher level authorisation is held, the lesser level authorisation functions will not be listed on the card.

An overview of the authorisation hierarchy is shown further in this document.

Sample network access authorisation card show below:

<p>The holder of this card may perform the following functions:</p> <ul style="list-style-type: none"><li>Carry out HV Live Work - Glove and Barrier up to and including 33KV</li><li>Carry out HV Live Work - Stick up to and including 33KV</li><li>Construct and Maintain OH Mains - Distribution</li><li>Distribution Network Switching 2 - DN2</li><li>Zone/transmission substations (without) restriction</li></ul>		<p>Only the functions listed on the card or contained within the hierarchy of a function may be performed</p> 
<p>It is an authorisation requirement to notify Endeavour Energy of any changes in the particulars of the holder of this authorisation</p>		
<h3>Network Access Authorisation</h3>		
	<p>This card certifies that <b>John Smith</b> is authorised to carry out the functions listed on the reverse associated with work under the Electrical Safety Rules on or near the Endeavour Energy electricity network while employed by Endeavour Energy.</p> <p>Ty Christopher General Manager Asset Management</p>	
<p>Anniversary: 18/03/2018</p>		

Authorised persons must provide their date of birth, passport quality recent photo of themselves (jpg format) and their legal first and last name.

Managers, supervisory personnel and individuals themselves must confirm the necessary authorisation functions for the task(s) concerned are held and displayed on the back of the card.

## 6.0 AUTHORISATION FUNCTIONS

### 6.1 Authorisation hierarchy

Authorisation functions exist in a hierarchical order where more advanced level authorisations include the ability to carry out the work of the authorisation functions below it.

Further information can be found within the scope statements in the schedule documents (6.4 – 6.14)

#### Example 1:

*A Distribution Network Switcher 3 – DN3 will only have 'Switch DN3' displayed on the authorisation card however; is able to carry out the following additional functions without them specifically being displayed on the card:*

- Hold Low Voltage Access Authority (LVAA)
- Hold Access Authority for Work (AAW)
- Install and Remove Working Earths
- Install and Remove Operational Earths
- Switch DN1(OH)
- Switch DN1(UG)
- Switch DN2



#### Example 2:



*A person authorised to Construct and Maintain UG Mains – Distribution will only have 'Construct and Maintain UG Mains – Distribution' however; is also able to carry out the following additional functions without them specifically being displayed on the card:*

- Disconnect and Reconnect – Class 2A
- Work on Underground Service Conductors – Class 2B

#### Example 3:

*A person authorised to Construct and Maintain OH Mains – Transmission Towers will only have 'Construct and Maintain OH Mains – Transmission Towers' however; is also able to carry out the following additional functions without them specifically being displayed on the card:*

- Disconnect and Reconnect – Class 2A
- Work on Overhead Service Conductors – Class 2C
- Construct and Maintain OH Mains – Distribution
- Construct and Maintain OH Mains – Transmission





## 6.2 List of authorisation functions

### Schedule 1 – Permit Recipient and Earthing Authorisations



*This schedule applies to persons required to hold an electrical permit and/or apply earthing and short circuiting equipment.*

- *Permits (known as Access Authorities) provide an administrative protocol for electrical apparatus to be isolated and enable work to be carried out on de-energised apparatus. Generally speaking, worksite coordinators/supervisory personnel hold these authorisation functions.*
- *Earthing is an integral step in providing safe access to de-energised HV apparatus under an Access Authority. This is a fundamental component of establishing permit requirements for worksite safety and is an activity that is carried out under the direction of authorised switching officers in order to assist the switching process.*

*Further detail in section 6.4*

- Hold Low Voltage Access Authority (LVAA)
- Hold Access Authority for Work (AAW) – Personal Issue
- Hold Access Authority for Work (AAW)
- Hold Access Authority for Test (AAT)
- Cancel and Reissue Access Authorities
- Install and Remove Working Earths
- Install and Remove Operational Earths

### Schedule 2 – Distribution Switching Authorisations

*This schedule applies to persons carrying out switching activities on the distribution network (up to and including 22kV) including overhead conductors and underground cables.*

*These authorisation functions require a high level of technical competence, knowledge of network configurations and understanding of various switchgear operations.*

*Authorised switchers are responsible for issuing Access Authorities to work parties and establishing safe worksite conditions to access de-energised apparatus.*

*Further detail in section 6.5*



- Low Voltage Network Switching
- Distribution Network Switching Level 1 (OH) – DN1 (OH)
- Distribution Network Switching Level 1 (UG) – DN1 (UG)
- Distribution Network Switching Level 2 – DN2
- Distribution Network Switching Level 3 – DN3



### Schedule 3 – Transmission Switching Authorisations



*This schedule applies to persons carrying out switching activities on the transmission network (up to and including 132kV).*

*Similar to distribution switching activities, these authorisation functions require the same high level of technical competence, knowledge of network configurations and understanding of various switchgear operations on a more complex scope at much higher voltages.*

*Authorised switchers are responsible for issuing Access Authorities to work parties and establishing safe worksite conditions to access de-energised apparatus.*

*Further detail in section 6.6*

- Protection Mandatory Isolations (PMI)
- Transmission Mains Switching - TM
- Transmission Substation Switching (Limited up to 22kV) – TS1A
- Transmission Substation Switching (Limited up to 132kV) – TS2A
- Transmission Substation Switching (Unrestricted up to 22kV) – TS1
- Transmission Substation Switching (Unrestricted up to 132kV) – TS2

### Schedule 4 – System Operator Authorisation

*This schedule applies to persons required to operate Endeavour Energy's network using Supervisory Control and Data Acquisition (SCADA) and associated computerised equipment systems.*

*System Operators oversee all network activity in order to manage system safety, reliability and security.*

*Further detail in section 6.7*

- System Operators (Control Room)

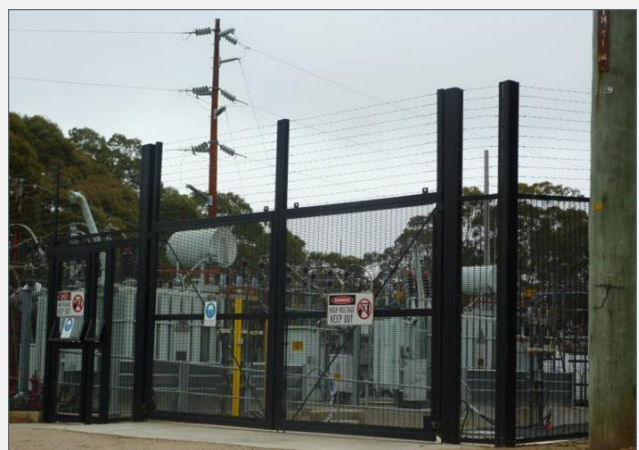
### Schedule 5 – Substation Entry Authorisations

*This schedule applies to the requirements to access/enter electrical substations.*

*These authorisation functions detail the requirements for entry into an electrical station in addition to the competencies/attributes for supervising others within an electrical station.*

*Workers seeking authorisation with the ability to supervise others within an electrical station must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both.*

*Further detail in section 6.8*



- Access distribution substations (including low voltage ancillary equipment)
- Access to zone/transmission substations – personal entry only
- Access to zone/transmission substations – Supervise non-invasive work
- Access to zone/transmission substations (without restriction)

## Schedule 6 – Vegetation Management Authorisations



*This schedule applies to the requirements for various techniques in managing vegetation near powerlines.*

*As part of a carefully managed twelve month cycle, we employ the services of trained horticulturalists, arborists and tree trimmers so we can continue to deliver a safe and reliable electricity supply.*

*Included in the schedule are a range of supporting activities that assist the overall vegetation management function and the relevant competencies required for this high risk work environment.*

*Further detail in section 6.9*

- Chipper Operator
- Vegetation Controller Scoper/Auditor
- Ground Machinery Operator/Observer
- Specialised Machinery Operator/Observer
- Ground Vegetation Control
- EWP Operator/Observer
- Within tree (climbing)
- Close Approach Vegetation Control - Ground Vegetation Control
- Close Approach Vegetation Control - EWP Operator/Observer
- Tree Management Activities

## Schedule 7 – Overhead Line and Ground Line Inspection Authorisations

*This schedule applies to the requirements for carrying out inspections of network assets and identifying defective equipment. These authorisations require careful analysis of asset condition in addition to the consideration of the surrounding environmental factors that may impact reliability and performance.*

*Whilst the majority of inspection techniques are limited to visual inspection, some invasive techniques such as drilling are employed to determine the internal structural integrity of timber pole.*

*Groundline inspectors may also carry out preservative chemical treatments to timber poles requiring comprehensive knowledge of safe chemical handling procedures.*

*Further detail in section 6.10*



- Carry out Desktop Overhead Line Inspection (Carry Out OLI)
- Carry out Overhead Line Inspection (Carry Out OLI)
- Carry out Overhead Line Inspection and Ground Line Inspection (Carry Out OLI/GLI)
- Carry out Pole-top (EWP) Inspections of Wood Poles



## Schedule 8 – Service and Metering Authorisations



*This schedule applies to the requirements for carrying out low voltage service and metering work including the testing, installation and maintenance of service conductors and associated equipment.*

*The authorisation functions range from work on overhead and/or underground service conductors in addition to the installation of metering equipment in low voltage switchboards.*

*Note: the ability to perform service and metering work is also included within the relevant trade based functions detailed in Schedule 10.*

*Further detail in section 6.11*

- Carry out Trade Assistance (Non-Electrically Qualified) – Class 2X
- Disconnect and Reconnect – Class 2A
- Work on underground service conductors – Class 2B
- Work on overhead service conductors – Class 2C
- Install Type 5 and 6 metering – Class 2D

## Schedule 9 – Plant and Equipment Authorisations

*This schedule applies to the requirements for operating and/or observing plant and equipment near overhead powerlines and underground cables.*

- *Operate/Observe plant near overhead powerlines details the competency requirements for safe work practices with observers for close approach activities using plant within 3 metres of powerlines.*
- *Observe excavation work near the network details the requirements for the identification and locating of underground services through site inspections and interpretation of relevant plans/drawings.*
- *Carry out excavation work combines the observe excavation requirements in addition to verification of competency that a person carrying out excavation work near underground services can operate plant safely and maintain control over the movement of powered excavation equipment.*

*Note: Some trade based authorisation functions listed in Schedule 10 may include the ability to operate/observe plant near overhead powerlines and/or observe excavation work near the network.*

*Further detail in section 6.12*



- Operate or Observe Plant Near Overhead Electrical Apparatus
- Observe Excavation Work Near the Network
- Carry Out Excavation Work Near the Network

## Schedule 10 – Trade Based Authorisations



*This schedule serves as a competency profile for electrical tradespeople carrying out a range of specialist tasks or trade based functions on the network. There are seven streams within this schedule with similar trade groupings in order to provide adequate guidance on competency requirements and scope specifications.*

*The streams include:*

- *non-trade qualified (assistant type roles)*
- *electrical testing and inspection (limited scope for qualified personnel carrying out minor non-construction type activities)*
- *communications technicians (non-electrical network activities limited to work for the purpose of communications equipment only)*
- *transmission technologists (work on primary and secondary network activities)*
- *distribution substation activities (workers constructing and maintaining distribution substations, switchgear and associated equipment)*
- *linework (installation, maintenance and inspection poles, structures and associated hardware used on poles and structures)*
- *cable jointing (laying, installation and maintenance of underground cables and the installation and maintenance of electrical equipment)*

*Further detail in section 6.13*

*Note: The trade based functions listed may include limited energised low voltage connection work however; do not include energised overhead linework practices detailed in Schedule 11. Further information in the specific scope requirements in the schedules.*

- |   |
|---|
| • Carry out trade assistance functions (Ground)   |
| • Carry out trade assistance functions (Overhead)                                       |
| • Carry out electrical testing and inspection (Ground)                                  |
| • Carry out electrical testing and inspection (Overhead)                                |
| • Inspect and Accept Electricity Network Assets   |
| • Construct & Maintain Under Ground Mains - Distribution                                |
| • Construct & Maintain Under Ground Mains - Transmission                                |
| • Construct & Maintain Overhead Mains - Distribution                                    |
| • Construct & Maintain Overhead Mains - Transmission                                    |
| • Construct & Maintain Overhead Mains - Transmission Tower                              |
| • Construct & Maintain Distribution Substation Equipment and Connection Work            |
| • Construct, Maintain & Test Secondary Systems  |
| • Construct, Maintain & Test Primary Substation Equipment                               |
| • Install, Maintain and Test Communications Equipment on or Near the Network (Ground)   |
| • Install, Maintain and Test Communications Equipment on or Near the Network (Overhead) |



## Schedule 11 – Live Work Authorisations

*This schedule details the competency requirements for all live work including low voltage and high voltage energised work.*

*Low Voltage Live Line Work includes any work involving the:*

- *re-positioning of energised conductors / change of tension or loading to energised conductors including energised cross arm replacements*
- *stringing, augmentation or displacement of energised conductors*
- *re-configuration of bonding arrangements on energised OH conductors including making or breaking shackle points (making/breaking bonds/use of bonding sticks for the purpose of switching is covered within the scope of Low Voltage Network Switching)*
- *energised pole change-overs*

*High Voltage Live Line Work is broken into four streams:*

- *Live Stick HV working techniques up to and including 22kV*
- *Live Stick HV working techniques up to and including 66kV*
- *Live Glove and Barrier HV working techniques up to and including 22kV*
- *Live Glove and Barrier HV working techniques up to and including 33kV*

*Further detail in section 6.14*

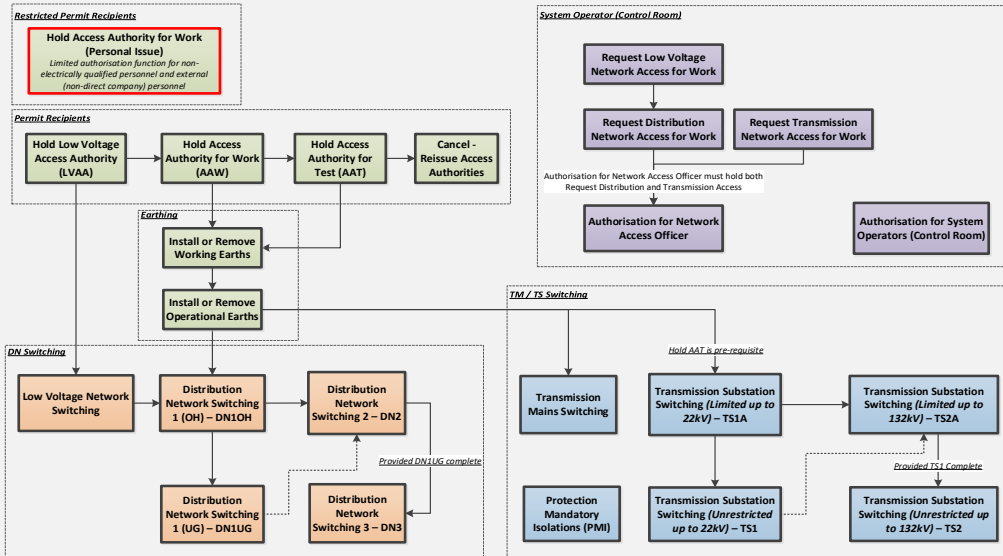


- Live Low Voltage Work – Ground Based (previously “Low Voltage Live Linework”)
- Live Low Voltage Work – Overhead
- High Voltage Live Linework (Glove and Barrier up to and including 22kV)
- High Voltage Live Linework (Stick up to and including 22kV)
- High Voltage Live Linework (Glove and Barrier up to and including 33kV)
- High Voltage Live Linework (Stick up to and including 66kV)

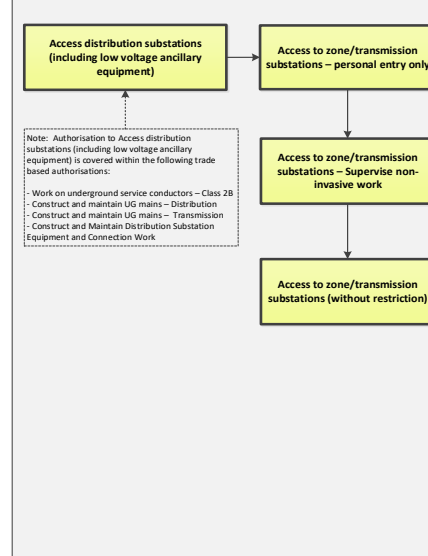
## 6.3 Authorisation hierarchy overview



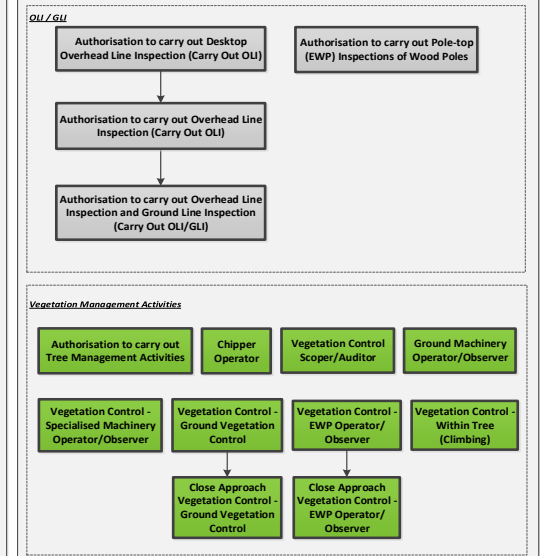
### Permits and Switching Hierarchy



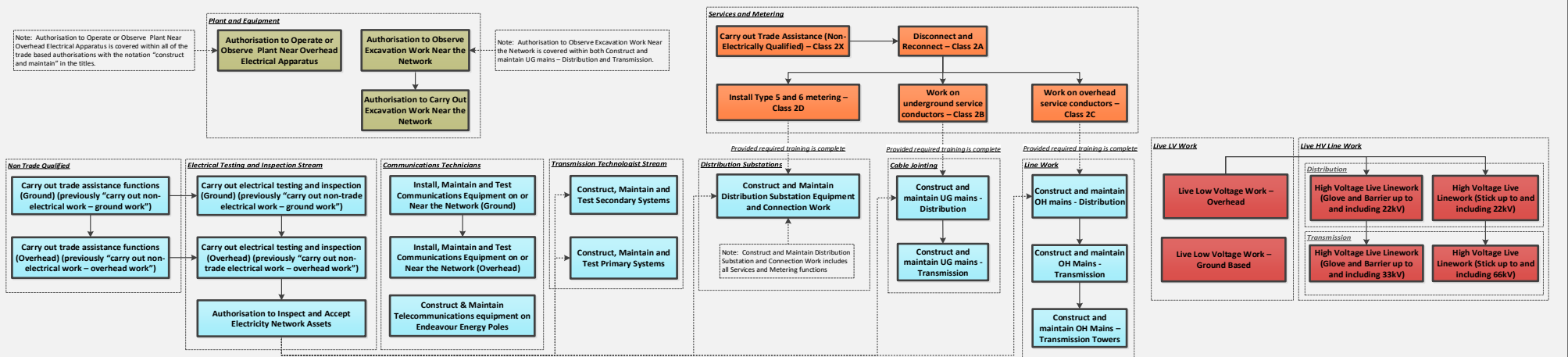
### Substation Access / Entry



### Vegetation Management and Asset Inspection Authorisations



### Network Construction and Maintenance Authorisations



## 6.4 Authorisation Schedule 1

### Permit Recipient and Earthing Authorisation Hierarchy

#### Restricted Permit Holder

##### Hold Access Authority for Work (Personal Issue)

Limited authorisation function for non-electrically qualified personnel and external (non-direct company) personnel

- Scope of activities covered by this authorisation:
  - May only accept a LVAA and AAW issued in person (face to face) to the individual
  - Surrender and Temporary Surrender an AAW
- Scope of activities not covered by this authorisation function:
  - Cannot accept a LVAA or AAW left onsite
  - Cannot Transfer AAW
  - Cannot hold AAT
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent).
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - Hold Access Authority for Work initial training (U001)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

#### Special Condition

##### Recognition of Authorisation Functions with other Network Operators (5.4.8)

Recognition for authorisation functions may be granted for authorised personnel of other Network Operators where an equivalency has been determined subject to the written approval from the Manager Electrical Safety and Performance.

#### Permit Holder

##### Hold Low Voltage Access Authority (LVAA)

- Scope of activities covered by this authorisation:
  - Carry out the role of LVAA holder in accordance with the ESRs
  - Accept a LVAA left onsite
  - Transfer and Surrender the LVAA
- Scope of activities not covered by this authorisation function:
  - Cannot hold AAW or AAT
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - Hold Low Voltage Access Authority Training (ATVHOLDER)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028) (as required)
  - SWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETDRRF088) (as required if working from an EWP)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Where the authorised person regularly carried out activities covered by this authorisation throughout the year, there will be no requirement for additional refresher training. Managers must confirm that the authorised person has maintained competence in this task.

##### Hold Access Authority for Work (AAW)

- Scope of activities covered by this authorisation:
  - Carry out the Activities of a person authorised to hold LVAA
  - Accept an AAW issued in person or left at a work site
  - Transfer, Surrender and Temporary Surrender an AAW
- Scope of activities not covered by this authorisation function:
  - Cannot hold AAT
  - Cannot Cancel – Reissue Access Authorities
- Qualification Requirements: Electrically Qualified
- Pre-requisite Requirements:
  - Authorised to Hold LVAA
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - Hold Access Authority for Work initial training (U001)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028) (as required)
  - SWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETDRRF088) (as required if working from an EWP)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Where the authorised person regularly carried out activities covered by this authorisation throughout the year, there will be no requirement for additional refresher training. Managers must confirm that the authorised person has maintained competence in this task

##### Hold Access Authority for Test (AAT)

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to hold AAW
  - Accept an AAT issued in person or left at a work site
  - Transfer and Surrender an AAT
  - Remove and replace earthing apparatus for the purposes of testing
- Scope of activities not covered by this authorisation function:
  - Cannot Temporary Surrender an AAT
  - Cannot Cancel – Reissue Access Authorities
- Qualification Requirements: Electrically Qualified
- Pre-requisite Requirements:
  - Authorised to Hold AAW
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Hold Access Authority for Test initial training (AAHOLTEST)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028) (as required)
  - SWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETDRRF088) (as required if working from an EWP)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Where the authorised person regularly carried out activities covered by this authorisation throughout the year, there will be no requirement for additional refresher training. Managers must confirm that the authorised person has maintained competence in this task

##### Cancel - Reissue Access Authorities

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to hold AAT
  - Cancel an AAW or AAT and issue a new AAW or AAT on the same apparatus, provided the scope of work, special conditions, isolation points and operational earthing at the limits of the AA area do not change and are not compromised
- Scope of activities not covered by this authorisation function:
  - Cannot cancel / reissue AAW or AAT for other work parties
- Qualification Requirements: Electrically Qualified
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
  - Hold AAT
- Specific Training and Assessment:
  - Cancel and Reissue Access Authority initial training" (course code AACANCISSU)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028) (as required)
  - SWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETDRRF088) (as required if working from an EWP)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - The "trainee issuer" will be required to cancel and reissue at least three Access Authorities, under the supervision of a person authorised to cancel and reissue Access Authorities.
- Final Assessment:
  - Following the probationary period the "trainee issuer" is required to undergo final assessment by an assessor appointed by the company's Technical Training Branch.
- Ongoing Maintenance of Competency:
  - cancel and reissue at least five access authorities during the previous 12 months; or
  - subject to level 4 manager (or higher) approval, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Technical Training Branch.

#### Earthing

##### Install and Remove Working Earths

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to hold AAW
  - Prove de-energised and install / remove working earths on high voltage overhead mains and apparatus which is already under Access Authority conditions
- Scope of activities not covered by this authorisation function:
  - Cannot install or remove working earths on UG network apparatus
  - Cannot install or remove operational earths
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent).
  - Authorised to Hold AAW
- Specific Training and Assessment:
  - The company's training in proving high voltage de-energised, installing and removing working earths.
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Where the authorised person regularly carried out activities covered by this authorisation throughout the year, there will be no requirement for additional refresher training. Managers must confirm that the authorised person has maintained competence in this task.

##### Install and Remove Operational Earths

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to install and remove working earths
  - Prove high voltage overhead mains and apparatus de-energised
  - Install and remove operational earths on high voltage overhead apparatus (under the instruction of an authorised switcher) as part of the switching process prior to the issue Or after the cancellation of an Access Authority
  - Remove operational earths as part of the switching process associated with the cancellation of an Access Authority
  - Remove operational earths after surrender and prior to cancellation of an Access Authority where an Access Authority has been endorsed for the removal of one or more earths prior to cancellation.
- Scope of activities not covered by this authorisation function:
  - Cannot install or remove operational earths on UG network apparatus unless endorsed for removal on the AA
  - Cannot remove operational earthing without prior instruction from the authorised switcher.
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent).
  - Authorised to Install and Remove Working Earths
  - Authorised to Hold AAW
- Specific Training and Assessment:
  - The company's training in proving high voltage de-energised, installing and removing operational earths.
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAI0001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Where the authorised person regularly carried out activities covered by this authorisation throughout the year, there will be no requirement for additional refresher training. Managers must confirm that the authorised person has maintained competence in this task.



## 6.5 Authorisation Schedule 2

### Distribution Switching Authorisation Hierarchy

**Switching Non-Network Systems is not applicable and does not require authorisation (GSY0093)**

Non-network systems include:

- LV supply to Substation Voltage Transformers
- auxiliary 230/400 Volt station systems (fans, pumps, motor supplies, etc)
- 230/400 Volt station supply (lights, power, etc)
- Audio Frequency Injection Cell (AFIC) 230/400 Volt supply systems
- LV service and metering work beyond the connection point
- non-electrical sources of energy

	Issue AA to Work Party	Issue AA to other crews or contractors	Issue AAW on OH	Issue AAW on UG	Commissioning OH	Commissioning UG	HV Phasing OH	HV Phasing UG	Fault Finding and Try Back OH	Fault Finding and Try Back UG	HV Parallel OH	HV Parallel UG	Issue AAT OH	Issue AAT UG	Issue OA OH	Issue OA OG	Cross reference AA's and folders	Regulator By pass and isolation point	Set Reclosers to N/A
DN1OH	YES	NO	YES	YES	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
DN1UG	YES	NO	YES	YES	YES	NO	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
DN2	YES	YES	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	YES	YES
DN3	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

#### Low Voltage Network Switching

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to Hold LVAA
  - Open and close LV switches on the LV primary network including LV Public Lighting systems and equipment (such as LV network mains, services and apparatus, etc)
  - Open and close switching devices on LV network supply (external street supply) to the zone or transmission substation up to the LV detection and changeover initiation relay (authorisation to enter zone/Transmission Substation required)
  - Break/make bonds/apply bonding sticks for LV primary network isolations and parallels
  - Operate temporary LV links installed on the LV primary network links
  - Operate generators and associated switching activities
  - Prove low voltage apparatus de-energised
  - Apply low voltage protective bonds
  - Issue LVAA, including self-issue
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EPW/ES)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Authorised to hold LVAA
  - Access distribution substations (including low voltage ancillary equipment)
- Specific Training and Assessment:
  - Low Voltage Switching initial training (course code NUE 201 or 0009)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTORR008)
    - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
    - Provide first aid in an ES environment (internal course code 8 U038; external course code UETTORR028)
    - Pole top rescue training (internal course code U005; external course code UETTORR028)
    - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETTORR11A)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Manager confirm applicants gain sufficient exposure to LV switching activities with an appropriate level of competency (including the issuing of an LVAA), under the direct supervision of a person authorised to carry out low voltage switching prior to the final assessment requirements.
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial LV Switching course
- Ongoing Maintenance of Competency:
  - Managers confirm applicants maintain sufficient exposure to LV switching activities with an appropriate level of competency during the previous 12 months. This includes understanding the need to have a comprehensive oversight over the competency of the person responsible for the issuing of an AA during the previous 12 months, including workplace and on-site interventions, documenting safety toolbox talks, completing workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous supervisor, etc.
  - Alternatively: Undertake one assessment during the previous 12 months by an Assessor appointed by the company's Technical Training Branch.

#### Distribution Network Switching 1 (OH) – DN1OH

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to Carry out Low Voltage Switching
  - Operate OH distribution switches on a section of radial feed (natural or created spur) up to and including 22kV following a written D&R or under the instruction of a System Operator to issue an AAW [\(see work party table\)](#)
  - Operate OH switchgear associated with UG cables (direct connect Tx and UG underscissings)
  - Prove OH conductors de-energised and apply OH earthing apparatus
  - Commission OH equipment
  - Operate reclosers and apply network protection suppression settings on reclosers – enable / disable SEF, auto-reclose and 'Live Line' setting under the direction of the System Operator
  - Use live line cutters to cut HV leads in accordance with Division Workplace Instruction WNV 104 – Use of Live Line Cutters by Authorised Switching employees
- Scope of activities not covered by this authorisation function:
  - Cannot issue AAW or AAT to other work crews including contractors
  - Cannot issue AAW or AAT on the network involving UG switchgear, isolation points or earthing
  - Cannot operate or apply test equipment to UG switchgear
  - Cannot operate a regulator or switchgear on the same structure associated with a regulator
  - Cannot issue or cancel an AA associated with transmission isolations or earthing
  - Cannot parallel parts of the HV network, conduct HV phasing or adjust protection relay/control systems
  - Cannot issue or receive HV Operating Agreements
  - Cannot cross reference HV switching folders
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EPW/ES)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Authorised to hold LVAA
  - Authorised to Switch Network LV
  - Authorised to Hold AAW
  - Authorised to Install and Remove Operational Earths (either held prior or gained through DN1 specific training)
- Specific Training and Assessment:
  - DN1 (OH) Switchers (course code 0006a) (Subject to level 4 manager (or higher) approval)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTORR008)
    - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
    - Provide first aid in an ES environment (internal course code 8 U038; external course code UETTORR028)
    - Pole top rescue training (internal course code U005; external course code UETTORR028)
    - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETTORR11A)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to the DN1 (OH) switching tasks under the direct supervision of an authorised switcher of at least DN1 (OH) level.
  - Complete DN1 (OH) Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN1 (OH) course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN1 (OH) switching (subject to endorsement from both the line manager and the Field Operations Management Team), or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

#### Distribution Network Switching 2 – DN2

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to carry out DN1(OH)
  - Carry out additional OH switching tasks including:
    - Operate regulators and associated switchgear
    - Make and break parallels on the OH HV network (up to 22kV) and conduct OH HV phasing
    - Issue and receive HV Operating Agreements applicable for OH apparatus only
    - Cross reference HV AA's on the G&L substation table
    - Issue AAW and AAT to Contractors and ASPs
- Scope of activities not covered by this authorisation function:
  - Cannot issue an AAW or AAT with equipment or earthing associated with the transmission network
  - Cannot issue AAW or AAT on the network involving UG switchgear, isolation points or earthing
  - Cannot operate or apply test equipment to UG switchgear
  - Cannot adjust protection relay/control systems
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EPW/ES)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - DN1 (OH)
- Specific Training and Assessment:
  - DN2 Switchers (course code 0007) (Subject to level 4 manager (or higher) approval)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTORR008)
    - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
    - Provide first aid in an ES environment (internal course code 8 U038; external course code UETTORR028)
    - Pole top rescue training (internal course code U005; external course code UETTORR028)
    - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETTORR11A)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to the DN2 switching tasks under the direct supervision of an authorised switcher of at least DN2 level.
  - Complete DN2 Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN2 course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN2 Switching (this will also satisfy the maintenance of competency for DN1OH as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team), or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

Provided DN1 UG Complete

#### Distribution Network Switching 1 (UG) – DN1UG

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to carry out DN1(OH)
  - Operate UG distribution switches on a section of radial feed (natural and created spur) up to and including 22kV following a written D&R or under the instruction of a System Operator to issue an AAW [\(see work party table\)](#)
  - Prove UG cables de-energised, apply UG earthing apparatus and commission OH equipment only
- Scope of activities not covered by this authorisation function:
  - No unplanned switching, fault finding or 'try back' switching on the UG network
  - Cannot operate or apply testing/earthing equipment to transmission equipment
  - Cannot issue AAW or AAT to other work crews including contractors
  - Cannot issue AAT on UG to any group
  - Cannot commission UG equipment
  - Cannot operate a regulator or switchgear on the same structure associated with a regulator
  - Cannot issue or cancel an AA associated with transmission isolations or earthing
  - Cannot parallel parts of the HV network, conduct HV phasing or adjust protection relay/control systems
  - Cannot issue or receive HV Operating Agreements or cross reference HV AA's
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EPW/ES)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - DN1 (OH)
  - Access distribution substations (including low voltage ancillary equipment)
  - Authorised to access to zone/transmission substations (without restriction)
- Specific Training and Assessment:
  - DN1 (UG) Switchers (course code 0006b) (Subject to level 4 manager (or higher) approval)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTORR008)
    - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
    - Provide first aid in an ES environment (internal course code 8 U038; external course code UETTORR028)
    - Pole top rescue training (internal course code U005; external course code UETTORR028)
    - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETTORR11A)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to the DN1 (UG) switching tasks under the direct supervision of an authorised switcher of at least DN1 (UG) level.
  - Complete DN1 (UG) Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN1 (UG) course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN1 (UG) switching (this will also satisfy the maintenance of competency for DN1OH as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team), or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

#### Distribution Network Switching 3 – DN3

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to carry out DN2(OH) and DN2
  - Carry out additional UG switching tasks
    - Make and break parallels on the UG network (up to 22kV) and conduct UG HV phasing
    - Issue and receive HV Operating Agreements applicable for UG apparatus
    - Cross reference HV AA's on the UG
    - Issue AAW and AAT to Contractors and ASPs
    - Complete DN3 F&E switching
    - Commission UG distribution equipment
- Scope of activities not covered by this authorisation function:
  - Verify the configuration of zone substation distribution feeders (ie position of switches and/or earthing devices) associated with a D&R for the purpose of work on the distribution network (this type of activity must be carried out in conjunction between a DN3 switcher and a TSI switcher or individual who holds both authorisation levels)
  - Cannot issue or cancel an AA for the purpose of work on the transmission network
  - Cannot operate or apply testing/earthing equipment to zone substation equipment
  - Cannot adjust protection relay/control systems
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EPW/ES)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - DN1 (UG)
  - DN2
  - Access distribution substations (including low voltage ancillary equipment)
- Specific Training and Assessment:
  - DN3 Switchers (course code 0010) (Subject to level 4 manager (or higher) approval)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTORR008)
    - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
    - Provide first aid in an ES environment (internal course code 8 U038; external course code UETTORR028)
    - Pole top rescue training (internal course code U005; external course code UETTORR028)
    - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETTORR11A)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to the DN3 switching tasks under the direct supervision of an authorised switcher of at least DN3 level.
  - Complete DN3 Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN3 course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN3 switching (this will also satisfy the maintenance of competency for DN2 and DN1UG as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team), or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

## 6.6 Authorisation Schedule 3

### Transmission Switching Authorisation Hierarchy

	Carry out PMI	Issue AAW to Work Party	Issue AAW to other crews or contractors	Switch Substation & Switching Station Line Isolator and associated VT only	Issue AAW and AAT on OH Distribution Mains	Issue AAW on OH Distribution Mains associated with transmission mains work	Switch inside Substation & Switching Station (other than Line Isolator and associated VT only)	Issue AAW and AAT on 33/66/132kV Substation & Switching Station Equipment	Issue AAW and AAT on 11/22kV Substation & Switching Station Equipment	Issue AAW and AAT on Distribution Mains (other than Reclosers and Regulators and Distributions Mains associated with Transmission work)	Field Reclosers Protection Control change	Switch and Issue AAW and AAT on Distribution Regulators & Reclosers	Issue Substation CB maintenance AAW and AAT	Issue AA's for access to cable chambers/prove de-energised	Commission Transmission OH mains	Commission Substation equipment	Fault Finding and Try Back on OH Transmission mains	Fault Finding and Try Back on Substation & Switching Station Equipment	Distribution HV switching and parallel of OH & UG	Cross Reference and folders	Issue OA on Transmission OH mains	Issue OA on Substation Equipment
TM	NO	YES	NO	YES	YES	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	YES	YES
TS1A	YES	YES	NO	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
TS2A	YES	YES	NO	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
TS1	YES	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES
TS2	YES	YES	YES	YES	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES

#### Transmission Mains Switching

- Scope of activities covered by this authorisation:
  - Operate overhead transmission field switches and outdoor line isolators within substations up to including 132kV following a written D&R or under instruction of a System Operator
  - Check open outdoor circuit breakers
  - Isolate VTs
  - Operate 33kV field reclosers
  - Issue an AAW or AAT to own work party only for work on the transmission OH mains (including distribution OH mains for the purpose of clearance not work)
  - Prove de-energised and apply overhead earthing apparatus including outdoor line earth switches
  - Commission OH transmission equipment. Issue or Receive Operating Agreements on overhead transmission equipment only
- Scope of activities not covered by this authorisation function:
  - TM switcher can not issue AAW or AAT to other work crews including contractors
  - Cannot operate any equipment on the supply side of the line isolator in the substations
  - Cannot issue AAW or AAT on distribution network other than for the purpose of applying earthing on the transmission network for clearance or joint used poles as part of an erection AAW
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EFM/EE)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Authorised to hold AAW
  - DNLOH theory and practical (to satisfy underpinning knowledge, not for the purpose of authorisation)
  - Authorised to enter to zone/transmission substations (without restriction)
- Specific Training and Assessment:
  - Transmission Mains Switching initial training (course code 0011) (Subject to level 4 manager (or higher) approval)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Pole top rescue training (internal course code U003; external course code UETD08F028)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to TM switching, under the direct supervision of a person authorised to carry out at least TM switching
  - Complete TM Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TM course
- Ongoing Maintenance of Competency:
  - Required to undertake at least 10 D&Rs containing TM switching during the previous 12 months (subject to endorsement from both the line manager and the Field Operations Management Team); or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

#### Protection Mandatory Isolations (PMI)

- Scope of activities covered by this authorisation:
  - Isolate/Restore circuit protection as required and undertake protection mandatory isolations
- Scope of activities not covered by this authorisation function:
  - Cannot carry out switching activities on primary system network apparatus
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Authorised to access to zone/transmission substations (without restriction)
- Specific Training and Assessment:
  - Authorised Protection Isolators Course (internal course code TE103) (Subject to level 4 manager (or higher) approval)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Must perform at least 3 protection mandatory isolations and 3 restorations under direct supervision of a person authorised to undertake protection mandatory isolations (subject to endorsement from the Field Operations Management Team)
- Ongoing Maintenance of Competency:
  - Required to undertake at least 3 protection mandatory isolations during the previous 12 months (subject to endorsement from both line management and the Field Operations Management Team)

#### Transmission Substation Switching (Limited up to 22kV) – TS1A

- Scope of activities covered by this authorisation:
  - Operate substation equipment (including VTs and auxiliary equipment) up to and including 22kV following a written D&R or under instruction from the System Operator to issue an AAW or AAT to own work party
  - Operate field reclosers and regulators (including by-passing), prove de-energised and apply earthing apparatus, and issue AAW or AAT
  - Undertake PMI
  - Verify distribution isolation and earthing required for substation work are complete
- Scope of activities not covered by this authorisation function:
  - TS1A switchers can not issue AAW or AAT to other work crews including contractors
  - Cannot issue/cancel AAW or AAT for the purpose of work on the distribution equipment
  - Cannot operate or earth the distribution network (either OH or UG including auxiliary bars)
  - Cannot provide access to cable chambers (prove de-energised)
  - Cannot act as the commissioning officer for commissioning new equipment
  - Cannot carry out fault finding involving the operation of equipment and 'tryback'
  - Cannot issue OA's or Cross reference switching folders
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EFM/EE)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Authorised to hold AAW and AAT
  - Authorised to access to zone/transmission substations (without restriction)
- Specific Training and Assessment:
  - DN1 (OH) Switchers (course code 0006) (Theory Component only) (Subject to level 4 manager (or higher) approval)
  - DN2 Switchers (course code 0007) (Theory Component only) (Subject to level 4 manager (or higher) approval)
  - DN3 Switchers (course code 0010) (Theory Component only) (Subject to level 4 manager (or higher) approval)
  - Transmission Substation Switching Level 1 (TS1) initial training (course code 0012) (Subject to level 4 manager (or higher) approval)
  - Authorised Protection Isolators Course (internal course code TE103) (Subject to level 4 manager (or higher) approval)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Pole top rescue training (internal course code U003; external course code UETD08F028)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to TS1A switching tasks under the direct supervision of an authorised switcher of at least TS1A level.
  - Complete TS1A Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TS1 course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 1 occasion as the person responsible for the issuing of an AAW) during the previous 12 months relating to TS1A switching (subject to endorsement from both the line manager and the Field Operations Management Team); or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

#### Transmission Substation Switching (Unrestricted up to 22kV) – TS1

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised in TS1A
  - Provide access to cable chambers (prove de-energised)
  - Commission new equipment
  - Complete F&E switching
  - Issue Operating Agreements
  - Cross reference switching folders
  - Operate and apply earthing equipment to distribution network apparatus and conduct phasing (including make / break parallels and perform isolations on the OH and UG for the purpose of work/test on the transmission network)
  - Issue AAW or AAT following a written D&R to Contractors and ASPs
- Scope of activities not covered by this authorisation function:
  - TS1 switchers can not operate equipment above 22kV
  - Cannot issue/cancel AAW or AAT for the purpose of work/test on the distribution network
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EFM/EE)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Initial training already completed as part of TS1A
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Pole top rescue training (internal course code U003; external course code UETD08F028)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to TS1 switching tasks under the direct supervision of an authorised switcher of at least TS1 level.
  - Complete TS1 Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months of progression from TS1A
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 1 occasion as the person responsible for the issuing of an AAW) during the previous 12 months relating to TS1 switching (this will also satisfy the maintenance of competency for TS1A as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team); or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

#### Transmission Substation Switching (Limited up to 132kV) – TS2A

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to carry out TS1A switching
- Scope of activities not covered by this authorisation function:
  - TS2A switchers can not issue AAW or AAT to other work crews including contractors
  - Cannot issue/cancel AAW or AAT for the purpose of work on the distribution equipment
  - Cannot operate or earth the distribution network (either OH or UG including auxiliary bars)
  - Cannot provide access to cable chambers (prove de-energised)
  - Cannot act as the commissioning officer for commissioning new equipment
  - Cannot carry out fault finding involving the operation of equipment and 'tryback'
  - Cannot issue OA's or Cross reference switching folders
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EFM/EE)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - TS1A
- Specific Training and Assessment:
  - Transmission Substation Switching Level 2 (TS2) initial training (course code 0013) (Subject to level 4 manager (or higher) approval)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Pole top rescue training (internal course code U003; external course code UETD08F028)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to TS2A switching tasks under the direct supervision of an authorised switcher of at least TS2A level.
  - Complete TS2A Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TS2 course
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 1 occasion as the person responsible for the issuing of an AAW) during the previous 12 months relating to TS2A switching (this will also satisfy the maintenance of competency for TS1A (not TS1) as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team); or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

TS1 must be completed

#### Transmission Substation Switching (Unrestricted up to 132kV) – TS2

- Scope of activities covered by this authorisation:
  - Unlimited zone and transmission switching on the transmission network up to and including 132kV (including the duties of a person authorised to carry out TS1) following a written D&R or under the instruction of the System Operator to issue an AAW or AAT (including the scope of activities of a person authorised in TS2A)
  - Provide access to cable chambers (prove de-energised)
  - Commission new equipment
  - Complete F&E switching
  - Issue Operating Agreements
  - Cross reference switching folders
  - Issue AAW or AAT following a written D&R to Contractors and ASPs
- Scope of activities not covered by this authorisation function:
  - Cannot issue/cancel AAW or AAT for the purpose of work/test on the distribution network
- Qualification Requirements:
  - Certificate III in ES Distribution Overhead (or equivalent including Craft Certificate)
  - Certificate III in ES Distribution Cable Joining (or equivalent including Craft Certificate)
  - Certificate III in Electrotechnology Electrician (or equivalent – EFM/EE)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - TS1
  - Authorised to Install and Remove Operational Earths (either held prior or gained through DN1 specific training)
- Specific Training and Assessment:
  - Initial training already completed as part of TS1A and TS2A
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETD08F068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code U038; external course code UETD08F108)
  - Pole top rescue training (internal course code U003; external course code UETD08F028)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETD08F11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Required to undertake at least ten D&Rs relating to TS2 switching tasks under the direct supervision of an authorised switcher of at least TS2 level.
  - Complete TS2 Progression Workbook (subject to endorsement from the Field Operations Management Team)
- Final Assessment:
  - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
  - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months of progression from TS2A
- Ongoing Maintenance of Competency:
  - Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying earthing apparatus with at least 1 occasion as the person responsible for the issuing of an AAW) during the previous 12 months relating to TS2 switching (this will also satisfy the maintenance of competency for TS1 as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team); or
  - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.

## 6.7 Authorisation Schedule 4

### System Operator Authorisation

#### Authorisation for System Operators (Control Room)

- Scope of activities covered by this authorisation:
  - Operate an Area Control Desk within the Control Room;
  - Use Supervisory Control and Data Acquisition (SCADA) and associated computerised equipment systems.
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Training in the requirements of System Control Branch Procedure NCB – Control Room Training procedures
- Initial Training and Assessment:
  - Electrical Safety Rules Training (U011)
- Probationary Period:
  - The Control Room Manager must confirm the training program and 'on the job' experience has enabled adequate time and complexity of tasks for individuals applying to carry out the duties of a System Operator to have developed sufficient skills and knowledge to carry out those duties competently and safely.
- Ongoing Refresher Training and Assessment:
  - Electrical Safety Rules Refresher Training (U011)
- Ongoing Maintenance of Competency:
  - The Control Room Manager is required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.



## 6.8 Authorisation Schedule 5

### Distribution Substation Access

#### Access distribution substations (including low voltage ancillary equipment)

- Scope of activities covered by this authorisation:
  - Access the company's Low Voltage (LV) ancillary equipment, padmount, ground mount and indoor distribution substations, and distribution switching stations in accordance with the Electrical Safety Rules
  - Supervise others accessing distribution substations and low voltage ancillary equipment only
- Scope of activities not covered by this authorisation function:
  - Cannot enter a zone/transmission substation without supervision
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent).
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Distribution Substation Entry course (course code DSUBE)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

### Zone/Transmission Substation Entry

#### Access to zone/transmission substations – personal entry only

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to
  - Access zone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rules
- Scope of activities not covered by this authorisation function:
  - Cannot supervise others in a zone or transmission substation or switching station
- Qualification Requirements:
  - Internal Employee: Nil / External Employee: Hold a trade level qualification (Certificate III or equivalent) in the manufacturing industry, building and construction industry, energy industry, communications industry or equivalent.
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent).
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Substation Entry course (course code: SUBE-PE)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

#### Access to zone/transmission substations – Supervise non-invasive work

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to
  - Access zone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rules
  - Supervise non-invasive work in a zone or transmission substation or switching station limited to the following:
    - Visual inspection of station equipment
    - Work on disconnected apparatus within an electrical station
    - Civil maintenance/construction activities such as fire systems, non-network electrical systems (lights/power) waste services, property maintenance, building services/repairs, etc.
- Note: Any worksite demarcated from primary and/or secondary systems with physical barriers or exclusion zones may be deemed as non-invasive.
- Scope of activities not covered by this authorisation function:
  - Cannot supervise any work within an electrical station involving the construction, maintenance and testing of primary and/or secondary systems
- Qualification/Experience Requirements:
  - Internal Employee: Nil / External Employee: Hold a trade level qualification (Certificate III or equivalent) in the manufacturing industry, building and construction industry, energy industry, communications industry or equivalent.
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent); and
  - Be employed in a role that requires the ability to supervise non-invasive Work; and
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Substation Entry course (course code: SUBE)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

#### Access to zone/transmission substations (without restriction)

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to
  - Access and supervise any work activity in zone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rules
- Qualification/Experience Requirements:
  - An Electrical qualification (Certificate III or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent); and
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Substation Entry course (course code: SUBE)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

## 6.9 Authorisation Schedule 6

### Vegetation Authorisation Hierarchy

#### Vegetation Management

##### Authorisation to carry out Tree Management Activities

- Scope of activities covered by this authorisation:
  - Identify, classify and re-classify vegetation defects in accordance with Company Standard MM1 0013 – Vegetation Clearance Management;
  - Remove foreign objects and vegetation from low voltage network apparatus utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves/insulated tools/equipment;
  - Remove foreign objects and vegetation from high voltage network apparatus utilising appropriately insulated extendable links/operating sticks where there is no risk to altering the mechanical loading of conductors or apparatus;
  - Respond to fault and emergency events to identify network defects and 'make safe' such as barricading areas, erecting exclusion zones, cutting away LV bonds and leads, etc.
- Scope of activities not covered by this authorisation function:
  - Carry out construction or maintenance of network apparatus
- Qualification Requirements:
  - Certificate III in Electrotechnology (Electrician) (or equivalent); or
  - Certificate III in ESI – Power Systems – Distribution Cable Joining (or equivalent); or
  - Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent); or
  - Craft certificate in Cable Joining; or
  - Craft certificate in Linework
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent);
  - Applicants must be employed in a position that requires the ability to carry out tree management activities; and
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the tree line manager.
- Specific Training and Assessment:
  - Company approved 'Hazard Tree Identification Course' (or superior qualification such as AHCB302, AHCB403)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - LV release and rescue (U009 / UETDRF088)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRF028)
  - EWPP Emergency Escape (CDO) (internal course code U006; or external course code UETDRF088) (as required)
- Ongoing Maintenance of Competency:
  - Applicants must provide annual evidence of accreditation by the Vegetation Management Branch (Tree Management accreditation form)

#### Supplementary Vegetation Authorisations

##### Chipper Operator

- Scope of activities covered by this authorisation:
  - A worker authorised as a Chipper Operator is able to operate a chipper on a network vegetation control work/practice only.
- Scope of activities not covered by this authorisation function:
  - Cannot come within 3 metres of network mains and apparatus.
- Qualification Requirements:
  - Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - AHCARB205A Operate and maintain chainsaws;
  - AHCMM030A Operate Machinery and Equipment;
  - UEENEE101A Apply OHS practices in the workplace; and
  - UETDR133A Comply with environmental and incidental response procedures.
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

##### Vegetation Control Scoper/Auditor

- Scope of activities covered by this authorisation:
  - Scope planned vegetation control work; and
  - audit vegetation control work/practices.
- Scope of activities not covered by this authorisation function:
  - Cannot come within 3 metres of network mains and apparatus.
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - AHCPC001A Recognise Plants;
  - UEENEE101A Apply OHS practices in the workplace;
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES environment;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

##### Ground Machinery Operator/Observer

- Scope of activities covered by this authorisation:
  - Operate or observe specialist vegetation control plant and machinery outside 3 metres of network mains and apparatus
- Scope of activities not covered by this authorisation function:
  - Cannot operate or observe plant and machinery within 3 metres of network mains and apparatus
- Qualification Requirements:
  - Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES environment;
  - UETDRV28A Cut vegetation at ground level near live electrical apparatus;
  - UETDRV29A Apply pruning techniques to vegetation control near live electrical apparatus;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

#### Vegetation Control

##### Specialised Machinery Operator/Observer

- Scope of activities covered by this authorisation:
  - Operate or observe specialist vegetation control plant and machinery in accordance with the clearances specified within Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot operate or observe plant and machinery for any purpose other than specialist vegetation control
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Grounding Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - UETDR133A Working safely near live electrical apparatus as a non-electrical worker;
  - AHCCH020A Apply chemicals under supervision;
  - AHCARB205A Operate and maintain chainsaws;
  - AHCMM030A Operate Machinery and Equipment;
  - AHCPC001A Recognise Plants;
  - UEENEE101A Apply OHS practices in the workplace;
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES Environment;
  - UETDRV28A Cut vegetation at ground level near live electrical apparatus;
  - UETDRV29A Apply pruning techniques to vegetation control near live electrical apparatus;
  - UETDRV30A Use specialised plant to cut vegetation above ground level near live electrical apparatus;
  - UETDRV31A Apply pruning techniques to vegetation control near live electrical apparatus;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

##### Ground Vegetation Control

- Scope of activities covered by this authorisation:
  - Understand or observe vegetation control from the ground (groundline) in accordance with Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot undertake any other form of vegetation control than from the ground
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Grounding Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - UETDR133A Working safely near live electrical apparatus as a non-electrical worker;
  - AHCCH020A Apply chemicals under supervision;
  - AHCARB205A Operate and maintain chainsaws;
  - AHCMM030A Operate Machinery and Equipment;
  - AHCPC001A Recognise Plants;
  - UEENEE101A Apply OHS practices in the workplace;
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES Environment;
  - UETDRV28A Cut vegetation at ground level near live electrical apparatus;
  - UETDRV29A Apply pruning techniques to vegetation control near live electrical apparatus;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

##### EWP Operator/Observer

- Scope of activities covered by this authorisation:
  - Understand or observe vegetation control from an EWP in accordance with Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot undertake any other form of vegetation control than from an EWP
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Elevated Work Platform Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - UETDR133A Working safely near live electrical apparatus as a non-electrical worker;
  - AHCCH020A Apply chemicals under supervision (as required);
  - AHCARB205A Operate and maintain chainsaws;
  - AHCMM030A Operate Machinery and Equipment;
  - AHCPC001A Recognise Plants;
  - UEENEE101A Apply OHS practices in the workplace;
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES Environment;
  - UETDRV28A Cut vegetation at ground level near live electrical apparatus;
  - UETDRV29A Apply pruning techniques to vegetation control near live electrical apparatus;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

##### Within Tree (Climbing)

- Scope of activities covered by this authorisation:
  - Understand or observe vegetation control from within a tree in accordance with Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot undertake any other form of vegetation control than from within a tree
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Within Tree (Climbing) Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - UETDR133A Working safely near live electrical apparatus as a non-electrical worker;
  - AHCCH020A Apply chemicals under supervision (as required);
  - AHCARB205A Operate and maintain chainsaws;
  - AHCMM030A Operate Machinery and Equipment;
  - AHCPC001A Recognise Plants;
  - UEENEE101A Apply OHS practices in the workplace;
  - UETDR133A Comply with environmental and incidental response procedures;
  - UETDRV23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;
  - UETDRV24A Assess vegetation and recommend control measures in an ES Environment;
  - UETDRV27A Monitor safety compliance for vegetation control work in an ES Environment;
  - UETDRV28A Cut vegetation at ground level near live electrical apparatus;
  - UETDRV29A Apply pruning techniques to vegetation control near live electrical apparatus;
  - UETDRV30A Use specialised plant to cut vegetation above ground level near live electrical apparatus;
  - UETDRV31A Apply pruning techniques to vegetation control near live electrical apparatus;
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

#### Close Approach Vegetation Control (CAVC)

Certificate II ESI – Powerline Vegetation Control Pathways		Unit of competence	Ground line vegetation controllers	EWP vegetation controllers	Within tree (climbing) vegetation controllers
Certificate II ESI – Powerline Vegetation Control – Core Units	Apply Occupational Health Safety regulations, codes and practices in the workplace	UEENEE101A	✓	✓	✓
	Comply with sustainability, environmental and incidental response policies and procedures	UETDR133A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Working safely near live electrical apparatus as a non-electrical worker	UETDR133A	✓	✓	✓
	Operate and maintain chainsaws	AHCARB205A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	UETDRV23A	✓	✓	✓
	Monitor safety compliance of vegetation control work in an ES environment	UETDRV27A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	License to operate a boom-type elevating work platform (boom length 11 metres or more)	TLUC2005A	✓	✓	✓
	Fall Small Trees	AHCARB202A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Apply chemicals under supervision	AHCCH020A	✓	✓	✓
	Undertake standard climbing techniques	AHCARB204A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Use climbing techniques to cut vegetation above ground near live electrical apparatus	UETDRV21A	✓	✓	✓
	Use elevated platform to cut vegetation above ground level near live electrical apparatus	UETDRV25A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Cut vegetation at ground level near live electrical apparatus	UETDRV26A	✓	✓	✓
	Apply pruning techniques to vegetation control near live electrical apparatus	UETDRV33A	✓	✓	✓
Certificate II ESI – Powerline Vegetation Control – Elective Units	Undertake release and rescue from a tree near live electrical apparatus	UETDRV34A	✓	✓	✓

##### Close Approach Vegetation Control - Ground Vegetation Control

- Scope of activities covered by this authorisation:
  - Understand or observe close approach vegetation control from the ground (groundline) in accordance with Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot undertake any other form of close approach vegetation control than from the ground
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Grounding Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent); and
  - Hold a current authorisation for Vegetation Control - Ground Vegetation Control
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - Company approved Close Approach Vegetation Control (CAVC) Course
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of close approach vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards; and
  - Company approved CAVC refresher

##### Close Approach Vegetation Control - EWP Operator/Observer

- Scope of activities covered by this authorisation:
  - Understand or observe close approach vegetation control from an EWP in accordance with Company Procedure GAM063 Electrical Safety Requirements for Network Vegetation Control
- Scope of activities not covered by this authorisation function:
  - Cannot undertake any other form of close approach vegetation control than from an EWP
- Qualification Requirements:
  - Certificate II in ESI – Vegetation Control (UETJ2012) (Elevated Work Platform Vegetation Controllers Stream)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent); and
  - Hold a current authorisation for Vegetation Control - EWP Operator/Observer
- Specific Training and Assessment (equivalent units of competence may be recognised):
  - Company approved Close Approach Vegetation Control (CAVC) Course
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM063 – Electrical Safety Requirements for Network Vegetation Control)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / H/TAAD001)
  - Provide first aid in an ES environment (internal course code U0308; external course code UETDRF108)
- Probationary Period:
  - Applicants must have logged at least 140 hours of close approach vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards; and
  - Company approved CAVC refresher

## 6.10 Authorisation Schedule 7

### OLI/GLI Inspection (Non-electrically qualified ground based inspections)

#### Authorisation to carry out Desktop Overhead Line Inspection (Carry Out OLI)

- Scope of activities covered by this authorisation:
  - Carry out overhead line inspections Using images in a desktop environment; and
  - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out overhead line inspections in a field based environment;
  - Cannot classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures;
  - Cannot carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 – Pole and Line Inspection and Treatment procedures; and
  - Cannot classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Qualification Requirements:
  - UET20612 - Certificate II in ESI - Asset Inspection (or equivalent)
- Pre-requisite Requirements:
  - Nil
- Specific Formal Instruction:
  - Initial instruction in the requirements of Company Standard MMI 0001 – Pole and Line Inspection and Treatment Procedures; and
  - Initial Instruction in the requirements of Company Standard MMI 0034 – Pre-Summer Bushfire Inspections
- Initial Training and ongoing Annual Refresher Assessment:
  - Nil
- Probationary Period:
  - Nil
- Ongoing Maintenance of Competency:
  - Applicants must provide annual evidence of accreditation signed by the OLI/GLI Manager specifically endorsing they have:
    - Been formally briefed on any relevant changes or amendments to company standards/procedures
    - Maintained the necessary quality of inspection and satisfied all relevant audit criteria to the satisfaction of the OLI/GLI Manager

#### Authorisation to carry out Overhead Line Inspection (Carry Out OLI)

- Scope of activities covered by this authorisation:
  - Carry out overhead line inspections in a field based environment; and
  - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Scope of activities not covered by this authorisation function:
  - Cannot classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures;
  - Cannot carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 – Pole and Line Inspection and Treatment procedures; and
  - Cannot classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Qualification Requirements:
  - UET20612 - Certificate II in ESI - Asset Inspection (or equivalent)
- Pre-requisite Requirements:
  - Work safety in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Formal Instruction:
  - Initial Instruction in the requirements of Company Standard MMI 0001 – Pole and Line Inspection and Treatment Procedures; and
  - Initial instruction in the requirements of Company Standard MMI 0034 – Pre-Summer Bushfire Inspections
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Applicants must provide annual evidence of accreditation signed by the OLI/GLI Manager specifically endorsing they have:
    - Been formally briefed on any relevant changes or amendments to company standards/procedures
    - Maintained the necessary quality of inspection and satisfied all relevant audit criteria to the satisfaction of the OLI/GLI Manager

#### Authorisation to carry out Overhead Line Inspection and Ground Line Inspection (Carry Out OLI/GLI)

- Scope of activities covered by this authorisation:
  - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures; and
  - Classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 – Pole and Line Inspection and Treatment procedures; and
  - Cannot classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Qualification Requirements:
  - UET20612 - Certificate II in ESI - Asset Inspection (or equivalent)
- Pre-requisite Requirements:
  - Work safety in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Formal Instruction:
  - Initial Instruction in the requirements of Company Standard MMI 0001 – Pole and Line Inspection and Treatment Procedures; and
  - Initial instruction in the requirements of Company Standard MMI 0034 – Pre-Summer Bushfire Inspections
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Probationary Period:
  - Work under the direct supervision of a person authorised to carry out Overhead Line Inspection and Ground Line Inspection (Carry Out OLI/GLI) and complete a log book detailing OLI/GLI inspections across a range of network apparatus to the satisfaction of the OLI/GLI Manager
- Ongoing Maintenance of Competency:
  - Applicants must provide annual evidence of accreditation signed by the OLI/GLI Manager specifically endorsing they have:
    - Been formally briefed on any relevant changes or amendments to company standards/procedures
    - Maintained the necessary quality of inspection and satisfied all relevant audit criteria to the satisfaction of the OLI/GLI Manager

### Pole Top Inspection (Electrically qualified specialist inspections carried out aloft)

#### Authorisation to carry out Pole-top (EWP) Inspections of Wood Poles

- Scope of activities covered by this authorisation:
  - Carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 – Pole and Line Inspection and Treatment procedures; and
  - Classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures.
- Scope of activities not covered by this authorisation function:
  - Carry out overhead line inspections in a field based environment;
  - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures;
  - Cannot classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safety in the construction industry (CPCCOHS1001 – NSW white card or equivalent);
  - High Risk Work Licence(s) for various items of plant (as required); and
  - An applicant must hold current authorisation to Operate or observe plant near overhead power lines under Company Procedure GAM 0032 – Authorisation To Operate Or Observe Plant Near Overhead Electrical Apparatus.
- Specific Training and Assessment:
  - Initial instruction in the requirements of Company Standard MMI 0001 – Pole and Line Inspection and Treatment Procedures; and
  - Training in the requirements of pole top inspection of wooden poles from an EWP (internal course code POLETOPINS)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - EWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETDRRF088)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards; and
  - Applicants must have carried out pole-top (EWP) inspections of wood poles on at least 3 occasions during the previous 12 months in accordance with MMI 0001 – Pole and Line Inspection and Treatment procedures



## 6.11 Authorisation Schedule 8

### Service and Metering Authorisation Hierarchy

## Carry out Trade Assistance (Non-Electrically Qualified) – Class 2X

Scope of activities covered by this authorisation:

- Perform electrical trade related work performed by electrical trades apprentices covered by a training contract that may be required to work on or near the network under direct and constant supervision of an appropriately authorised person;
- Carry out work performed by or on engaged by a telecommunications worker on telecommunications assets attached to electricity network operator assets; and
- Perform trade assistance work such as safety observer, rescue assistant and plant operator.

Note: This class allows non-electrically qualified personnel to be registered with the ASP Scheme in accordance with the Scheme Rules.

- Scope of activities not covered by this authorisation function:
  - Cannot carry out 2A, 2B, 2C or 2D work
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safety in the construction industry (CPCCOCS1001 – NSW white card or equivalent);
- Specific Training and Assessment:
  - UETT001244 – Working safely near live electrical apparatus as a non-electrical worker (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U0011)
  - U1 release and rescue (U009 / UETT001208)
  - Cardiac Pulmonary Resuscitation (CPHR / U0101 / U1TAD001)
  - Provide first aid in an ESI environment (internal course code U0018; external course code UETT001208)
  - U001 may receive training (internal course code U0018; external course code UETT001208)
  - Approved Assistants Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have sufficiently exposed to a variety of work/basis on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical hazards safely.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and on-site interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent T party interviews from a previous employee supervisor, etc.

Note: Authorisation for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the ASP company accreditation expires, the authorisation of all employees must be suspended.

	Qualification Requirements				
	Disconnect and reconnect – Class 2A	Work on underground services – Class 2B	Work on overhead service conductors – Class 2C	Install and test metering – Class 2D	Non-electricity
Certificate III in Electrotechnology Electrician (or equivalent)	✓	✓	✓	✓	N/A
Certificate III in ESI – Power Systems – Distribution Cable Joining (or equivalent)	✓	✓	✓	✓	N/A
Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)	✓	✓	✓	✓	N/A

✓# – applicants must hold at least one of the qualification options for this authorisation

Initial Training Requirement	Disinfectant and Reconnect - Class 2A	Work on underground services and connections - Class 2B	Work on overhead services and connections - Class 2C	Initial Type 5 and 6 training - Class 2D	Non-electrically qualified - 2X
Endeavour Energy Electrical Safety Rules training	✓	✓	✓	✓	✓
<b>UETDRRPF068</b> Low voltage release and rescue (internal course code 8U009)	✓	✓	✓	✓	✓
<b>HLTAID001</b> Perform CPR (internal course code 8U010)	✓	✓	✓	✓	✓
<b>UETDRRPF11A</b> Successfully complete test and completion of polarity, phase sequence and neutral integrity tests (internal course code 8U063)	✓	✓	✓	✓	✓
<b>UETDRRPF028</b> pole top rescue training including pre-climbing safety inspections of poles, both timber and steel (internal course code 8U003)	✓	✓	✓	✓	As Required
<b>UETDRRPF068</b> EWP Emergency Escape (CDD) (internal course code 8 U006).	✓	✓	✓	✓	✓
<b>UETDRRPF108</b> First Aid in an ESI Environment	✓	✓	✓	✓	✓
<b>UETDREL16A</b> Working safely near live electrical apparatus	✓	✓	✓	✓	✓
<b>UETDREL14A</b> Working safely near live electrical apparatus as a non-electrical worker	✓	✓	✓	✓	✓
Armoured asbestos awareness training	✓	✓	✓	✓	✓

Refresher Training Requirement	Recognized Class 2A - Class 2A - Work on and around service conductors - Class 2B	Work on overhead and underground conductors - Class 2C - Class 2D	Install Type 5 and 6 cables - Class 2D - Class 2E	Non-electrically qualified - 2A
Enduser Energy Electrical Safety Rules training	✓	✓	✓	✓
<b>UETDORF96B</b> Low voltage release and rescue (internal course code U009)	✓	✓	✓	✓
<b>HLTAID001</b> Perform CPR (internal course code U010)	✓	✓	✓	✓
<b>UETDORF11A</b> Successfully complete test and completion of polarity, phase sequence and neutral integrity tests (internal course code U026)	✓	✓	✓	✓
<b>UETDORR92B</b> pole top rescue training including pre-climbing safety inspections of poles, both timber and steel (internal course code U003)	✓	✓	✓	As Required
<b>UETDORF10B</b> First Aid in an E3 Environment	✓	✓	✓	✓

## Disconnect and Reconnect – Class ZA

Scope of activities covered by this authorization:

- Carry out the duties of a person authorized to carry out Trade Assistance (Non-Electrically Qualified) – Class ZK;
- Utilise Energise UV practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves; and
- Disconnect and recover service assets (including emergency service level) at the connection point – but only work at the connection point that does not involve accessing network operator assets and no mechanical changes to network assets are required.

Scope of activities not covered by this authorization function:

- Cannot carry out 2B, 2C, 2D

Qualification Requirements:

- Primary qualification must include at least one of the following:
  - Certificate III in Electrotechnology Electrician (or equivalent); or
  - Certificate III in ES1 – Power Systems – Distribution Cable Joining (or equivalent); or
  - Certificate III in ES1 – Power Systems – Distribution Overhead (or equivalent).

Pre-requisite Requirements:

- Work safety in the construction industry (KPCCHS1001 – NSW white card or equivalent)

Specific Training and Assessment:

- UETT00161A Working safely near live electrical Apparatus (or equivalent)

Initial Training and ongoing Annual Refresher Assessment:

- Electrical Safety Rules Training (U0111)
- UV release and rescue (U009) / UETD006F06B
- Cardiac Pulmonary Resuscitation (CPR) (A410) / HLTA0001
- Provide first aid and an ES1 environment (internal course code U038; external course code UETD00108)
- Practical phase and online training (internal course code U036; external course code UETD00114)
- Approved Substation Assessment Course (only required once for Initial authorisation application)

Ongoing Maintenance of Competency:

- Managers are required to inform applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
- This may be undertaken through a variety of means such as but not limited to: having comprehensive oversight over work schedules/programs, regular workplace and on-site observations, documenting safety toolbox talks, calling workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/s supervisor, etc.

**Note:** Authorization for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the ASP company accreditation expires, the authorisation of all employees must be suspended.

## Work on overhead service conductors – Class 2C

- Scope of activities covered by this authorisation:
  - Remove and replace an Endoverse Energy security seal;
  - Install and connect overhead service lines to the point of common coupling;
  - Connect underground service conductors to the overhead distribution network and install underground service conductors on a distributor pole from 3m above ground level (to a person authorised to work on underground service conductors – Class 2B required to install the service conductor from ground level up to 3m from ground level);
  - Relocate/upgrade an existing overhead service line and restore supply on completion;
  - Utilise energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves;
  - Disconnect and reconnect service lines at the point of supply and point of common coupling (including energised connection/disconnection from overhead conductors); and
  - Replace service fuses(s), service switches and neutral links.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out 2B or 2D
- Qualification Requirements:
  - Primary qualification must include at least one of the following:
    - Certificate III in Electrotechnology (Electrician (or equivalent)) or
    - Certificate III in (E1 – Power Systems – Distribution Overhead (or equivalent))
- Pre-requisite Requirements:
  - Work safely in the construction industry (KPCCHS5001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - UETTDR0566A – Install and maintain low voltage overhead service conductors (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U001)
  - LV released and rescue (U009) (UETTDR04908)
  - Cardio Pulmonary Resuscitation (CPW) (U002) / AHA/D0001)
  - Provide first aid in an Electrical environment (Internal course code U008, external course code UETTDR1088)
  - Pole top training as in (E1) external course code U003, external course code UETTDR04208)
  - EMF/Emergency Escape (C002) (Internal course code U006, or external course code UETTDR0888) (as required for applicants working aloft from an EMF)
  - Polarity, phase sequence and neutral integrity tests (Internal course code U026, external course code UETTDR6711A)
- Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the work to maintain skills and skills in order to adequately identify, assess and control electrical safety hazards.

This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and on-site interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/ supervisor, etc.

Note: Authorisation for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the ASP company accreditation expires, the authorisation of all employees must be suspended.

## Install Type 5 and 6 metering – Class 2D

- Scope of activities covered by this authorisation:
  - Remove and replace an Enduse/air Energy security seal;
  - Install and remove metering equipment for meter types 5 and 6 and Enduse/air Energy security equipment;
  - Utilise energised LV work practices to apply temporary insulating material/barricades where required and the use of low voltage insulating gloves;
  - Disconnect and reconnect of the installation (including energised connection/disconnection) at the connection point (including at an overhead point of attachment); and
  - Energise new installations.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out 2B or 2C
- Qualification Requirements:
  - External Applicants:
    - Certificate III in Electrotechnology/Electrician (or equivalent); and
    - Additionally, to be eligible for authorisation to Install Type 5 and 6 Metering an applicant must hold Qualified Supervisor Certificate – Electrical or an Electrical Contractor Licence endorsed with a Q
  - Internal Applicants:
    - Certificate III in Electrotechnology/Electrician (or equivalent);
    - Certificate III in ESI – Power Systems – Distribution Cable Joining (or equivalent); or
    - Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOH51001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - External Applicants:
    - UETDREL161A – Working safely near live electrical apparatus (or equivalent);
    - UETDREL142A – Apply environmentally and sustainable energy procedures in the energy Sector (or equivalent); and
    - Either:
      - UETDTR560A – Install and replace power system meters and associated Equipment (or equivalent); or
      - UENEEG617A – install, setup and commission interval metering (or equivalent)
  - Internal Applicants:
    - UETDTR560A – Install and replace power system meters and associated Equipment (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U0011)
  - LV release and rescue (U009) / UETDRF06B
  - Cardio Pulmonary Resuscitation (CPR) (U010) / H1A0001
  - Provide first aid in an ESI environment (Internal course code U038; external course code UETDTR108)
  - Pole top rescue training (internal course code U001; external course code UETDTR028) (as required for applicants working aloft)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETDTR611A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and on-site interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

Note: Authorisation for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the ASP company accreditation expires, the authorisation of all employees must be suspended.

## 6.12 Authorisation Schedule 9

### Overhead Plant

#### Authorisation to Operate or Observe Plant Near Overhead Electrical Apparatus

- Scope of activities covered by this authorisation:
  - Operate plant up to the safe approach distances provided in Table A – Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook, whilst an authorised safety observer is in place; and
  - Observe plant that is operated by an authorised operator up to the safe approach distances provided in Table A – Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out or observe powered excavation work near the network
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Work near overhead electrical apparatus training course in accordance with Company Procedure (Health & Safety) GSY 0031 – Operating or Observing Plant Near Overhead Electrical Apparatus (internal course code 8 U022); or
  - UETTDREL14A - Working safely near live electrical apparatus as a non-electrical worker (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETTDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Excavation

#### Authorisation to Observe Excavation Work Near the Network

- Scope of activities covered by this authorisation:
  - Observe powered excavation activities carried out by an authorised operator in accordance with the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
  - Cannot carry out powered excavation work near the network
  - Cannot operate or observe plant near overhead electrical apparatus
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - RIICCM202D Identify, Locate and Protect Underground Services (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETTDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.



#### Authorisation to Carry Out Excavation Work Near the Network

- Scope of activities covered by this authorisation:
  - Observe and carry out powered excavation activities carried out by an authorised operator in accordance with the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
  - Cannot operate or observe plant near overhead electrical apparatus
- Qualification Requirements: Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - RIICCM202D Identify, Locate and Protect Underground Services (or equivalent); and
  - Additionally, in order to gain authorisation to carry out excavation near the network, a person must complete a practical Verification of Competence (VOC) by an RTO accredited in accordance with Branch Procedure PES 0002 – RTO Accreditation. The VOC must be carried out in accordance with Endeavour Energy Electrical Safety Rules.
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETTDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## 6.13 Authorisation Schedule 10

### Non-Electrical Trade Qualified

#### Carry out trade assistance functions (Ground) (previously “carry out non-electrical work – ground work”)

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the “Authorised person” safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Carry out non-electrical works associated with the company’s network at ground level such as but not limited to: laying/hauling cables, establishing the foundations/erection for UP pillars and Street Light columns, pole installation/erection, etc.
  - Remove foreign objects (such as clearing minor vegetation) from energised low voltage network apparatus utilising insulated equipment/telescopic operating sticks where there is no risk to altering the mechanical loading of conductors/apparatus or encroaching personnel clearance;
  - Respond to fault and emergency events to identify network defects and “make safe” such as barricading areas, erecting exclusion zones, warning bystanders, etc.
  - Act as a nominated rescuer for ground work activities (including live LV panel/poles/apparatus)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out jinning, connection or termination of cables/conductors
  - Cannot work energised and may only encroach Live LV Safe Approach Distances in an emergency for the purpose of a rescue
  - Cannot work aloft on overhead poles/structures or act as a nominated rescuer for overhead work activities
- Qualification Requirements:
  - Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
- Ongoing Maintenance of Competency:
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

#### Carry out trade assistance functions (Overhead) (previously “carry out non-electrical work – overhead work”)

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to carry out trade assistance functions (Ground)
  - Carry out non-electrical works associated with the company’s network on overhead structures involving the need to work aloft such as but not limited to: lashing poles, numbering assets/installation of signage, etc.
  - Act as a nominated rescuer for overhead work activities (including live LV OH work)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out jinning, connection or termination of cables/conductors
  - Cannot work energised and may only encroach Live LV Safe Approach Distances in an emergency for the purpose of a rescue
- Qualification Requirements:
  - Nil
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028)
  - EWP Emergency Escape (CDO) (internal course code 8 U006; or external course code UETDRRF088)
  - Perform tower rescue (internal course code 8 U007; external course code UETDRRF048) (as required)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Electrical Testing and Inspection Stream (Engineers/Technicians/Inspectors)

#### Carry out electrical testing and inspection (Ground) (previously “carry out non-trade electrical work – ground work”)

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the “Authorised person” safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Carry out the duties of a person authorised to carry out trade assistance functions (Ground)
  - Perform electrical testing and/or inspection activities at ground level (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out jinning, connection or termination of cables/conductors (excluding for the purpose of connecting an instrument or testing device)
  - Cannot work aloft on overhead poles/structures or act as a nominated rescuer for overhead work activities
- Qualification Requirements:
  - An Electrical Qualification or Degree (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRRF11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

#### Carry out electrical testing and inspection (Overhead) (previously “carry out non-trade electrical work – overhead work”)

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to carry out electrical testing and inspection (Ground)
  - Carry out the duties of a person authorised to carry out trade assistance functions (Overhead)
  - Perform electrical testing and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out jinning, connection or termination of cables/conductors (excluding for the purpose of connecting an instrument or testing device)
- Qualification Requirements:
  - An Electrical Qualification or Degree (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCOHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028)
  - EWP Emergency Escape (CDO) (internal course code 8 U006; or external course code UETDRRF088)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRRF11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

#### Authorisation to Inspect and Accept Electricity Network Assets

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to carry out electrical testing and inspection (Overhead)
  - Carry out and supervise pre-commissioning testing and inspection activities in accordance with relevant company Standards and/or Procedures for Testing and Commissioning for Distribution and Transmission Systems
  - Commission Low Voltage network apparatus
- Scope of activities not covered by this authorisation function:
  - Carry out construction or maintenance of network apparatus
  - Commission High Voltage network apparatus
- Qualification Requirements:
  - An Electrical Qualification or Degree (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCOHS1001 – NSW white card or equivalent);
  - Applicants must be employed in a position that requires the ability to inspect and accept electricity network assets; and
  - Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such experience and/or training will be at the discretion of the line manager.
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF068)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETDRRF108)
  - Pole top rescue training (internal course code U003; external course code UETDRRF028)
  - EWP Emergency Escape (CDO) (internal course code 8 U006; or external course code UETDRRF088) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRRF11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards



## Distribution Substations

### Construct and Maintain Distribution Substation Equipment and Connection Work

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the 'Authorised person' safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Act as a nominated rescuer for ground work activities (including live LV panels/pillars/apparatus)
  - Act as a nominated rescuer for overhead work activities (including live LV OH work)
  - Carry out OH and US service and metering work including testing and connection work on customer installations (switchboards, pillars, POAs, etc.) (2A,2B,2C and 2D)
  - Construct and maintain OH and US distribution switchgear, substations and equipment
  - Construct and maintain OH and US street lighting systems
  - Carry out low voltage XLPE cable jointing and associated connection work
  - Perform energised connection and disconnection of LV cables and associated equipment (both OH and US)
  - Connect generator cabling (both OH and US) (Authorisation to Carry Out Low Voltage Network Switching is required for the operation of generators and associated switching activity)
  - Perform electrical testing, connection and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
  - Operate and observe plant near overhead electrical apparatus (distribution and transmission)
  - Access Distribution Substations (including low voltage ancillary equipment)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
  - Cannot construct and maintain OH mains or UG mains (other than the specific activities listed above)
  - Cannot carry out HV cable jointing or CONSEC jointing
  - Cannot carry out construction or maintenance of transmission assets
- Qualification Requirements:
  - Primary qualification must include at least one of the following:
    - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent); or
    - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent); or
    - Craft certificate in Cable Jointing; or
    - Craft certificate in Linework
  - Additional competency requirements must include evidence of the following:
    - Training in public lighting systems (such as but not limited to: internal course code - NE164 / external course code - UETDRI5534) (or equivalent); and
    - Training in distribution substations, switchgear and associated equipment (such as but not limited to: internal course code - Distswitch / external course code - UETDRI624A and/or UETDRI624B) (or equivalent)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code U006; or external course code UETDRI088) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course (only required once for internal authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## Cable Jointing Stream

### Construct and maintain UG mains - Distribution

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the 'Authorised person' safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Act as a nominated rescuer for ground work activities (including live LV panels/pillars/apparatus)
  - Act as a nominated rescuer for overhead work activities (including live LV OH work)
  - Construct and maintain UG distribution mains and apparatus including distribution substations and US street lighting systems
  - Carry out cable jointing and termination work on UG distribution cables and associated assets (polymeric and paper insulated cables rated at nominal voltages: 230V, 12.7kV, 11kV, and low voltage including CONSEC) at ground level or on a pole
  - Carry out underground service work including installation, maintenance, testing and connection work on customer installations (switchboards, pillars, etc.) (Carry out 2A and 2B service work)
  - Perform electrical testing and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
  - Perform energised connection and disconnection of UG LV cables and associated equipment (including UG connections and 'like for like' components only)
  - Connect generator cabling (UG only) (Authorisation to Carry Out Low Voltage Network Switching is required for the operation of generators and associated switching activity)
  - Act as the observer for excavation work near the network (distribution and transmission)
  - Operate and observe plant near overhead electrical apparatus (distribution and transmission)
  - Access Distribution Substations (including low voltage ancillary equipment)
- Scope of activities not covered by this authorisation function:
  - Cannot construct and maintain OH mains
  - Cannot perform energised connection and disconnection of UG LV cables and associated equipment
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
  - Cannot carry out construction or maintenance of transmission assets
- Qualification Requirements:
  - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent); or
  - Certificate II in ES – Power Systems – Distribution Overhead (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in distribution cable jointing); or
  - Craft certificate in Cable Jointing
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code U006; or external course code UETDRI088) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course (only required once for internal authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Construct and maintain UG mains - Transmission

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Construct and maintain UG Mains - Distribution
  - Construct and maintain UG Transmission mains and apparatus
  - Carry out cable jointing and termination work on overhead transmission structures carrying voltages up to and including 132kV
- Scope of activities not covered by this authorisation function:
  - Cannot construct and maintain OH mains
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
- Qualification Requirements:
  - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent); or
  - Certificate II in ES – Power Systems – Distribution Overhead (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in distribution cable jointing); or
  - Craft certificate in Cable Jointing
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code U006; or external course code UETDRI088) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course
- Probationary Period:
  - Managers confirm applicants gain sufficient exposure to transmission cable jointing activities ranging in type and complexity under the direct supervision of a person authorised as a Cable Joiner (Transmission) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control electrical safety hazards. (Progression from the probationary period to become authorised as a Cable Joiner (Transmission) is at the discretion of [Transmission](#) line management)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## Linework Stream

### Construct and maintain OH mains - Distribution

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the 'Authorised person' safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Act as a nominated rescuer for ground work activities (including live LV panels/pillars/apparatus)
  - Act as a nominated rescuer for overhead work activities (including live LV OH work)
  - Construct and maintain OH distribution mains and apparatus including distribution pole substations and OH street lighting systems
  - Carry out the work on overhead distribution structures, (structures carrying 230V, 12.7kV, 11kV, and LV apparatus)
  - Carry out overhead service work including installation, maintenance, testing and connection work on customer installations (switchboards, POAs, etc.) (Carry out 2A and 2C service work)
  - Perform electrical testing and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
  - Perform energised connection and disconnection of UG LV cables and associated equipment (including UG connections and 'like for like' components only)
  - Connect generator cabling (UG only) (Authorisation to Carry Out Low Voltage Network Switching is required for the operation of generators and associated switching activity)
  - Operate and observe plant near overhead electrical apparatus (distribution and transmission)
  - Remove foreign objects (such as clearing vegetation) from energised network apparatus utilising powered tools and insulated equipment/telescopic operating sticks where the risk of altering the mechanical loading of conductors/apparatus is controlled and safe approach distances can be maintained
- Scope of activities not covered by this authorisation function:
  - Cannot construct and maintain UG mains
  - Cannot perform energised connection and disconnection of UG LV cables and associated equipment
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
  - Cannot carry out construction or maintenance of transmission assets
- Qualification Requirements:
  - Certificate II in ES – Power Systems – Distribution Overhead (or equivalent); or
  - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution overhead); or
  - Craft certificate in Linework
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code 8 U006; or external course code UETDRI088)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Construct and maintain OH Mains - Transmission

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Construct and maintain OH Mains - Distribution
  - Construct and maintain OH Transmission mains and apparatus on overhead transmission structures carrying voltages up to and including 132kV
- Scope of activities not covered by this authorisation function:
  - Cannot construct and maintain UG mains
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
  - Cannot carry out work on steel lattice transmission towers
- Qualification Requirements:
  - Certificate II in ES – Power Systems – Distribution Overhead (or equivalent); or
  - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution overhead); or
  - Craft certificate in Linework
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code U006; or external course code UETDRI088)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course
- Probationary Period:
  - Managers confirm applicants gain sufficient exposure to transmission overhead activities ranging in type and complexity under the direct supervision of a person authorised as a Lineworker (Transmission) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control electrical safety hazards. (Progression from the probationary period to become authorised as a Lineworker (Transmission) is at the discretion of [Transmission](#) line management)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Construct and maintain OH Mains – Transmission Towers

- Scope of activities covered by this authorisation:
  - Carry out the duties of a person authorised to Construct and maintain OH Mains - Transmission
  - Carry out the work and associated construction/maintenance activities on steel lattice towers carrying voltages up to and including 132kV.
- Scope of activities not covered by this authorisation function:
  - Cannot construct and maintain UG mains
  - Cannot carry out energised overhead live network practices (Low Voltage Live Linework)
- Qualification Requirements:
  - Certificate II in ES – Power Systems – Distribution Overhead (or equivalent); or
  - Certificate II in ES – Power Systems – Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution overhead); or
  - Craft certificate in Linework
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - High Risk Work Licence for Basic Rigging (CPCCLRG3001A - Licence to perform rigging basic level)
- Specific Training and Assessment:
  - Nil
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRI008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTA0001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRI008)
  - Pole top rescue training (internal course code U003; external course code UETDRI028)
  - EWI Emergency Escape (ECO) (internal course code 8 U006; or external course code UETDRI088)
  - Perform tower rescue (internal course code 8 U007; external course code UETDRI048)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026; external course code UETDRI088) (as required)
  - Approved Asbestos Awareness Course
- Probationary Period:
  - Managers confirm applicants gain sufficient exposure to transmission tower activities ranging in type and complexity under the direct supervision of a person authorised as a Lineworker (Transmission Tower) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control electrical safety hazards. (Progression from the probationary period to become authorised as a Lineworker (Transmission Tower) is at the discretion of [Transmission](#) line management)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## Communication Technicians

### Install, Maintain and Test Communications Equipment on or Near the Network (Ground)

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Act as a nominated rescuer for ground work activities (including live LV panel/pillars/apparatus)
  - Install, maintain and test communications equipment including antennas mounted on Ground level infrastructure
  - Reconnect/activate auxiliary supply associated with communications equipment
  - Connect auxiliary extra low voltage supply to communications equipment
- Scope of activities not covered by this authorisation function:
  - Cannot carry out maintenance or construction on primary system network apparatus
  - Cannot carry out maintenance or construction on secondary system network apparatus other than for the purpose of the activities listed in the scope above
  - Not permitted to make communications connections to the controller of non-commissioned assets
- Qualification Requirements:
  - NI
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Engaged directly by the company
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Communications Technician course (course code: COMMSTECH)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRRF008)
  - Working safely near live electrical apparatus as a non-electrical worker (internal course code BU022, external course code UETDRE144)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Install, Maintain and Test Communications Equipment on or Near the Network (Overhead)

- Scope of activities covered by this authorisation:
  - Carry out the activities of a person authorised to Install, Maintain and Test Communications Equipment on or Near the Network (Ground)
  - Install, maintain and test communications equipment including antennas mounted on guyed infrastructure
- Scope of activities not covered by this authorisation function:
  - Cannot carry out maintenance or construction on primary system network apparatus
  - Cannot carry out maintenance or construction on secondary system network apparatus other than for the purpose of the activities listed in the scope above
  - Not permitted to make communications connections to the controller of non-commissioned assets
- Qualification Requirements:
  - NI
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Engaged directly by the company
- Specific Training and Assessment:
  - An applicant must provide evidence of successful completion of the company's Communications Technician course (course code: COMMSTECH)
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRRF008)
  - Working safely near live electrical apparatus as a non-electrical worker (internal course code BU022, external course code UETDRE144)
  - Pole top rescue training (internal course code U003; external course code UETDRRF008)
  - EWP Emergency Escape (ECO) (internal course code 8 U006; or external course code UETDRRF008) (as required (if working from an EWP))
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Construct & Maintain Telecommunications Equipment on Endeavour Energy Poles

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Carry out NBN Works on Endeavour Energy poles
- Qualification Requirements:
  - NI
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - Company must be accredited with the Department of Planning and Environment and maintain its ASP accreditation.
- Initial Training and ongoing Annual Refresher Assessment:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
  - UETDRE144 - Working safely near live electrical apparatus as a non-electrical worker (or equivalent)
  - Endeavour Energy Electrical Safety Rules Training - Initial training to be carried out by Endeavour Energy Technical Training Centre, annual refresher training may be carried out by an Endeavour Energy-approved RTO
  - Cardio Pulmonary Resuscitation (CPR) (U010) – refreshed annually
  - Provide first aid in an ES environment UETDRWF028 – refreshed annually
  - Pole top rescue training UETDRRF028 – refreshed annually
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## Transmission Technologist Stream

### Construct, Maintain and Test Secondary Systems

- Scope of activities covered by this authorisation:
  - Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
  - Act as a nominated rescuer for ground work activities (including live LV panel/pillars/apparatus)
  - Act as a nominated rescuer for overhead work activities (including live LV OH work)
  - Carry out construction and maintenance tasks on secondary systems including protection and control systems
  - Install, joint and terminate communications cables on or near the network
  - Carry out testing activities on secondary systems
  - Install, maintain and test field communications and protection equipment
  - Operate and observe plant near overhead electrical apparatus (distribution and transmission)
- Scope of activities not covered by this authorisation function:
  - Cannot construct, maintain or test primary systems
  - Cannot carry out construction or maintenance of distribution substations
  - Cannot carry out construction or maintenance of network mains
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - NI
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRRF008)
  - Pole top rescue training (internal course code U003; external course code UETDRRF008)
  - EWP Emergency Escape (ECO) (internal course code 8 U006; or external course code UETDRRF008) (as required (if working from an EWP))
  - Perform rescue from switchyard structures at heights (transformer rescue) (internal course code BU005; or external course code UETDRRF008) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETDRRF11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

### Construct, Maintain and Test Primary Systems

- Scope of activities covered by this authorisation:
  - Construct and maintain primary systems within a major substation (all equipment operated at voltages defined as HV)
  - Construct and maintain earthing systems within substations containing live equipment
  - Carry out IM testing on network apparatus, and network mains
  - Standby fallen conductors and make safe distribution apparatus (cut away low voltage service conductors, apply temporary insulating material, erect barricading, etc.)
- Scope of activities not covered by this authorisation function:
  - Cannot carry out construction or maintenance of distribution substations
  - Cannot carry out construction or maintenance of network mains
- Qualification Requirements:
  - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCHS1001 – NSW white card or equivalent)
- Specific Training and Assessment:
  - NI
- Initial Training and ongoing Annual Refresher Assessment:
  - Electrical Safety Rules Training (U011)
  - LV release and rescue (U009 / UETDRRF008)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAD001)
  - Provide first aid in an ES environment (internal course code 8 U038; external course code UETDRRF008)
  - Pole top rescue training (internal course code U003; external course code UETDRRF008)
  - EWP Emergency Escape (ECO) (internal course code 8 U006; or external course code UETDRRF008) (as required (if working from an EWP))
  - Perform rescue from switchyard structures at heights (transformer rescue) (internal course code BU005; or external course code UETDRRF008) (as required)
  - Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETDRRF11A)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)
- Ongoing Maintenance of Competency:
  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## 6.14 Authorisation Schedule 11

Live Work Stream

### Live Low Voltage Work – Ground Based

- |   |   |
|---|---|
| Scope of activities covered by the authorization:         | <ul style="list-style-type: none"> <li>• Carry out work on the construction of distribution networks or in substitution thereof outside of utility 12 working practices, includes any work involving the:               <ul style="list-style-type: none"> <li>- installation of cables in pedestrian subways, pillars, vaults, and substation enclosures;</li> <li>- replacement of overhead lines by underground cables;</li> <li>- and/or</li> <li>- Replacing or replacing electric connections.</li> </ul> </li> </ul>   |
| Scope of activities not covered by the authorization:     | <ul style="list-style-type: none"> <li>- Control constant and maintain LV lines</li> <li>- Control any work not authorized or maintenance of transmission assets</li> <li>- Control any work on HV power lines</li> </ul>   |
| Qualification Requirements:                               | <ul style="list-style-type: none"> <li>- Primary qualification must include at least one of the following:               <ul style="list-style-type: none"> <li>- Certificate in E2P - Power Systems - Distribution Overhead (or equivalent); or</li> <li>- Certificate in its corresponding technique (or equivalent); or</li> <li>- Certificate in E2P - Power Systems - Distribution Cable (or equivalent) [both relevant competences required to be eligible for a statement of attainment in this area]</li> <li>- Certificate in Cables in Underway; or</li> <li>- Certificate in Cables</li> </ul> </li> <li>- Additional competence requirement must include the following:               <ul style="list-style-type: none"> <li>- For Substation Work: Competency in HV or HV Substation Competency in group based on 12 Work Practices (such as but not limited to: Internal course code U15022 - Live Work Voltage)</li> </ul> </li> </ul> |
| Pre-requisite Requirements:                               | <ul style="list-style-type: none"> <li>- Work ability in the construction industry (CPEC000185 - NOW work (and or equivalent)</li> <li>- Safety Training and Assessment</li> <li>- Live Voltage starting module internal course code U1501</li> </ul>   |
| Initial Training and ongoing Annual Refresher Assessment: | <ul style="list-style-type: none"> <li>- Electrical Safety Rules Training (SRL1)</li> <li>- HV release and renewal (S2022)</li> <li>- Cables Pathway Management (CPE00122) &amp; TAO0022</li> <li>- Inside Hot and out of 12 essential internal course code U1503; external course code U15070801</li> <li>- Risk top review training (internal course code U1503; external course code U15070801)</li> <li>- Perf-Progressive Safety 2020 (internal course code U1505; or external course code U15070801)</li> <li>- Perf-Progressive Safety 2021 (internal course code U1505; or external course code U15070801)</li> <li>- Perf-Progressive Awareness Course (only required upon initial authorisation application)</li> </ul>   |
| Performance Requirements:                                 | <ul style="list-style-type: none"> <li>- Competency in HV or HV Substation Competency in group based on 12 Work Practices (such as but not limited to: Internal course code U15022 - Live Work Voltage)</li> </ul>  |

Live Low Voltage Work - Overhead (previously "Low Voltage Live Linework")

- [illegible]

### High Voltage Live Linework (Common Requirements)

- |  |  |
|--|--|
| Scope of activities covered by this authorization:     | <p>– Carry out the following tasks:</p> <ul style="list-style-type: none"> <li>- Use low voltage tools and equipment and require the use of electrical safety equipment as stated in the Table A – from the Electrical Safety Rules (workbook approval)</li> <li>- Use low voltage tools and equipment to install or to replace:</li> <li>- Use low voltage tools and equipment to install or to replace:</li> <li>- Use Genset and burner for working techniques up to 10 kVA including 230V</li> <li>- Use Genset and burner for working techniques up to 10 kVA including 230V</li> <li>- Apply network protection settings on receivers – avoid 1600V, 50Hz, auto-reclose and 'live lock' setting</li> <li>- Make non-routine repairs to: rectifiers/transformers (downed overhead switch) under the direction of a system operator</li> </ul> |
| Scope of activities not covered by this authorization: | <p>– General control and maintenance (GCM)</p> <p>– Control power emergency controls and disconnection of 10 kV cables and associated equipment (including GCM equipment and other 'live line' components)</p>   |
| Qualifications:  | <p>– Possess the following qualifications:</p>   |
| Primary qualifications:                                | <p>– Certification in (a) – Power Systems – Distribution (above the equivalent); or</p>  |
| Secondary qualifications:                              | <p>– Certificate in (b) – Power Systems – Distribution (above the equivalent) (both relevant competencies required to be eligible for a statement of attainment in</p>   |
| Tertiary qualifications:                               | <p>– Distribution (above); or</p>  |
| Other qualifications:                                  | <p>– CPE certificate in (c) – Power Systems – Distribution (above the equivalent)</p>  |
| Pre-requisite requirements:                            | <p>– Must work in the construction industry with CHC13013 – WHS code (or equivalent)</p>   |
| Other requirements:                                    | <p>– Class 1 (unlimited) for equivalent) with minimum 3 years experience (excluding time spent as an apprentice)</p>   |
| Specific Training and Assessment:                      | <p>– Assessment requirements for the competency must include the requirements of CHC13013 – WHS code (or equivalent)</p>   |
| Assessment requirements:                               | <p>– Assessment requirements must include the following (in required):</p>   |
| Assessment requirements:                               | <p>– CHC13013 – WHS code (or equivalent)</p>   |
| Assessment requirements:                               | <p>– CHC13013 – WHS code (or equivalent)</p>   |
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| Assessment requirements:                               | <p>– CHC13013 – WHS code (or equivalent)</p>   |
| Assessment requirements:                               | <p>– CHC13013 – WHS code (or equivalent)</p>   |
| Assessment requirements:                               | <p>– CHC13013 – WHS code (or equivalent)</p>   |
|  |  |

Note: If a high voltage live worker has not been authorized at any stage in the previous three years, they will be required to undergo complete re-training and complete the probationary process as a trainee high voltage live worker.

Distribution Live Line Worker

## High Voltage Live Linework (Glove and Barrier up to and including 22kV)

- [illegible]

## Transmission Live Line Worker

## High Voltage Live Linework (Glove and Barrier up to and including 33kV)

- [illegible]

High Voltage Live Linework (Stick up to and including 22kV)

- [illegible]

High Voltage Live Linework (Stick up to and including 66kV)

- [illegible]



## 6.15 Accredited Service Provider Class Authorisation Function Matrix

ASP Class Category	'Trade Based' Authorisation Function	Other Authorisation Function(s) as required
<b>Level One</b>		
Class 1A (previously known as Category 1 Overhead) – Overhead – work on or near the overhead electricity network	<ul style="list-style-type: none"> <li>Construct &amp; Maintain Overhead Mains – Distribution; or</li> <li>Construct &amp; Maintain Overhead Mains – Transmission; or</li> <li>Construct &amp; Maintain Overhead Mains - Transmission Tower</li> </ul>	<ul style="list-style-type: none"> <li>Hold Low Voltage Access Authority (LVAA); or</li> <li>Hold Access Authority for Work (AAW)</li> <li>Install and Remove Working Earths; or</li> <li>Install and Remove Operational Earths</li> </ul>
Class 1B (previously known as Category 2a Underground) – Underground Paper lead and Polymeric	<ul style="list-style-type: none"> <li>Construct &amp; Maintain Under Ground Mains – Distribution; or</li> <li>Construct &amp; Maintain Under Ground Mains - Transmission</li> </ul>	<ul style="list-style-type: none"> <li>Hold Low Voltage Access Authority (LVAA); or</li> <li>Hold Access Authority for Work (AAW)</li> </ul>
Class 1C – (previously known as Category 2b Underground) – Underground Polymeric only		
Class 1X – Non-electrically qualified. This class allows non-electrically qualified personnel to be registered with the ASP Scheme in accordance with the Scheme Rules.	<ul style="list-style-type: none"> <li>Carry out trade assistance functions (Ground); or</li> <li>Carry out trade assistance functions (Overhead); or</li> <li>Construct &amp; Maintain Telecommunications Equipment on Endeavour Energy Poles</li> </ul>	<ul style="list-style-type: none"> <li>Operate or Observe Plant Near Overhead Electrical Apparatus</li> <li>Observe Excavation Work Near the Network; or</li> <li>Carry Out Excavation Work Near the Network</li> <li>Hold Access Authority for Work (AAW) – Personal Issue</li> </ul>

<b>Level Two</b>		
Class 2A (previously known as Category 1) – Disconnect and reconnect	<ul style="list-style-type: none"> <li>• Disconnect and Reconnect – Class 2A</li> </ul>	<ul style="list-style-type: none"> <li>• Hold Low Voltage Access Authority (LVAA)</li> </ul>
Class 2B (previously known as Category 2) – Work on underground service conductors	<ul style="list-style-type: none"> <li>• Work on UG service conductors – Class 2B</li> </ul>	<ul style="list-style-type: none"> <li>• Hold Low Voltage Access Authority (LVAA); and</li> <li>• Access distribution substations (including low voltage ancillary equipment)</li> </ul>
Class 2C (previously known as Category 3) – Work on overhead service conductors	<ul style="list-style-type: none"> <li>• Work on OH service conductors – Class 2C</li> </ul>	<ul style="list-style-type: none"> <li>• Hold Low Voltage Access Authority (LVAA)</li> </ul>
Class 2D (previously known as Category 4) – Installing metering for meter types 5 to 6 and other Network Operator service equipment	<ul style="list-style-type: none"> <li>• Install Type 5 and 6 metering – Class 2D</li> </ul>	<ul style="list-style-type: none"> <li>• Hold Low Voltage Access Authority (LVAA)</li> </ul>
Class 2X – Non-electrically qualified	<ul style="list-style-type: none"> <li>• Carry out Trade Assistance (Non-Electrically Qualified) – Class 2X</li> </ul>	<ul style="list-style-type: none"> <li>• Nil</li> </ul>
<b>Level Three</b>		
Class 3A – Design of OH electricity reticulation	<ul style="list-style-type: none"> <li>• Carry out Electrical Testing and Inspection (Overhead)</li> </ul>	<ul style="list-style-type: none"> <li>• Distribution substations (including low voltage ancillary equipment)</li> <li>• Zone/transmission substations - personal entry</li> </ul>
Class 3B – Design of UG electricity reticulation	<ul style="list-style-type: none"> <li>• Carry out Electrical Testing and Inspection (Ground)</li> </ul>	<ul style="list-style-type: none"> <li>• Distribution substations (including low voltage ancillary equipment)</li> <li>• Zone/transmission substations - personal entry</li> </ul>

## 7.0 FREQUENTLY ASKED QUESTIONS

### Do I need to be authorised to work on the Endeavour Energy network?

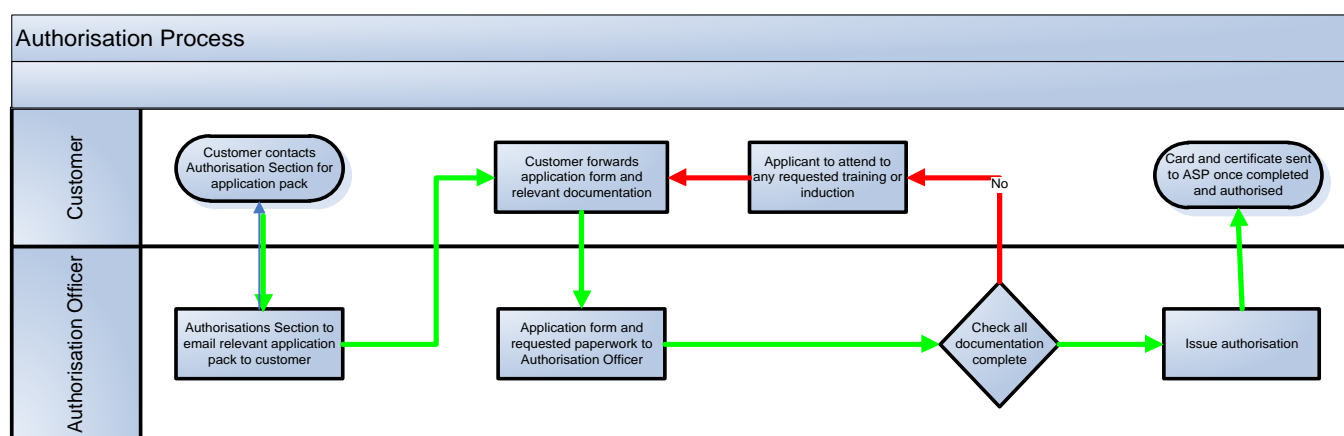
Yes, unless you are under supervision. All people wishing to work on or near the Endeavour Energy electricity network without authorised supervision will be appropriately authorised, once they have met the competency requirements that are requested for each individual function.

### Can anyone be authorised to work on the Endeavour Energy network?

You must be either working for an Accredited Service Provider, Contract Service Provider, or employee of Endeavour Energy to be authorised. People will only be authorised if they are employed by a company that has a legitimate need to employ authorised persons and the necessary safety management systems for the work activities to be carried out.

### How do I get authorised?

Authorisations are processed in accordance with Endeavour Energy's *Company Procedure GAM 0018 Authorisations Process Management*. For further details on how to become authorised contact [authorisations@endeavourenergy.com.au](mailto:authorisations@endeavourenergy.com.au)



### What is an Authorised Person (AUP)?

A person with technical knowledge or sufficient experience who has been approved, or who has the delegated authority to act on behalf of Endeavour Energy, to perform the duty concerned.

### What is an Accredited Service Provider (ASP)?

A company or individual accredited by the NSW Department of Planning & Environment to undertake contestable service work as defined by the Scheme for Accreditation of Service Providers.

### What is a Contract Service Provider (CSP)?

A corporation, company or individual who is engaged to do work for Endeavour Energy.

### Do I need to renew my accreditation that is given to me by the NSW Department of Planning & Environment?

Your accreditation must be renewed annually. If your accreditation has expired and is not renewed, any authorisations that have been issued under the accreditation will be suspended.

### Do you accept other safety rules for an initial authorisation?

No. Electrical Safety Rules for other companies, although similar, are not the same as Endeavour Energy's. All people required to work on or near the network must demonstrate an understanding of the Endeavour Energy's Electrical Safety Rules.

### What is a Registered Training Organisation?

Training organisations that have been registered in accordance with the Australian Recognition Framework to provide Vocation Education & Training (VET) Services.

### **What is NAAS?**

NAAS is short for Network Access Authorisation System. This is the corporate database used to store records of people's authorisation to work on the network.

### **What is contestable works?**

Under the *Electricity Supply Act 1995*, customers are required to fund certain works which are required to enable new or increased capacity connection to the electricity network. These works are contestable and the customer chooses a service provider to carry out these works. Contestability may also be extended to other capital works requested by and funded by individuals or organisations to suit the site developments or required as a result of damage caused by others. Further info:

<http://www.resourcesandenergy.nsw.gov.au/energy-supply-industry/pipelines-electricity-gas-networks/network-connections/contestable-works>

### **What is the authorisations renewal period?**

The period of time from one month prior to an authorisation anniversary date to one month after an authorisation anniversary date. If you complete your training outside this window, your anniversary date will be moved to your training date.

### **What does it mean if my authorisation has been suspended?**

If you receive a suspension letter, you are not permitted to work on the Endeavour Energy network until the suspension has been lifted.

### **What if I'm on leave when my renewal is due/What if I am injured and can't complete training?**

If you can't complete the required training and/or can't submit your paperwork before your expiry date (1 month after your anniversary date) your Authorisation will be temporarily suspended. If you are on leave, or you are on light duties due to injury, then you don't require access to the network, and therefore don't need to be authorised. As soon as you return to normal duties, attend the required training and submit your paperwork your Authorisation will be reinstated (note: your authorisation anniversary date may change).

### **What if I regularly do a certain type of work but my card does not display the relevant authorisation(s)?**

This means you are not authorised and must stop performing that particular activity. Your manager/employer will need to apply for the necessary authorisation function to be added to your authorisations card and provide evidence of competency.

### **What if I don't have the necessary training/qualification requirements within the authorisation function but do the work?**

As above, this means you are not authorised and must stop performing that particular activity. You will need to complete the necessary training requirements in order to become authorised. You cannot continue performing the task without direct supervision until you are authorised to do so.

### **If I am learning how to carry out a task covered by an authorisation function do I need to be authorised?**

No. You will need to be under the appropriate level of supervision of a person authorised to carry out that task.

### **What if I have been carrying out a specific function for many years but have never had any formal training and/or don't hold the necessary qualification?**

This means you are not authorised and must stop performing that particular activity. For Endeavour Energy employees, the Technical Training Delivery Branch may perform a range of workplace and/or theoretical assessments in order to determine any recognition or prior learning or current competency (RPL/RCC). This is a comprehensive process that takes a significant administrative resource to complete and may take weeks/months. For externals, RTOs may be able to facilitate a similar RPL or RCC process or alternatively provide the required training.



**What if I believe I am competent to carry out a task though my manager does not and won't attest to my competence?**

This means you are not authorised and must stop performing that particular activity. Line management ultimately hold the duty and associated responsibilities to ensure workers are competent to carry out specific tasks.

**What if I have the necessary qualifications/skills to hold an authorisation though my manager does not want me to hold it?**

This means you are not authorised and must stop performing that particular activity. Line management ultimately hold the duty and associated responsibilities to ensure workers are competent to carry out specific tasks. It is at the discretion of a manager to recognise the existing competence of workers to hold a particular authorisation function.

**If I lose my authorisation does that mean I lose my qualification?**

No. Qualifications and training, where a statement of attainment has been issued, do not expire. The reasoning behind losing an authorisation is related to familiarity with the work activities. The basic philosophy is that if you don't continually use a skill you lose it. Authorisation protects against this happening, particularly with high risk activities.

**What happens if I hold an authorisation but have doubts about my own ability?**

The first step is to raise this with your supervisor. There are a few options such as additional training, pairing with a mentor to improve particular skills or alternatively, failing this, your authorisation function will be taken away.

**Are there authorisation fees for Accredited Service Providers?**

There is an Australian Energy Regulator (AER) approved authorisation fee which will be invoiced to the Accredited Service Provider upon authorisation approval. Please note there is a fee for all new applications, and renewal applications. All fees include GST. Please contact the Authorisation Section for the amount, as fees are increased on the 1st July each year in accordance with the AER determination. Contact: [authorisations@endeavourenergy.com.au](mailto:authorisations@endeavourenergy.com.au)

**How do I obtain sealing pliers?**

Endeavour Energy will be moving away from individual identification sealing pliers for new authorised personnel from 2 October 2017 and as a result, will no longer be issuing sealing pliers.

Existing authorised personnel can continue to seal switchboard equipment using their existing sealing pliers and seals in a transition period of an undefined timeframe until existing stock are exhausted.

New authorised personnel are required to obtain Endeavour Energy "Green" Roto Seals. The seals have an EE prefix and a wire rotate to secure to the equipment.

ASPs are required to purchase the seals directly from Harcor. As part of the order please request stock code SS30208 and provide the ASP Accreditation number provided by the Department of Planning & Environment. Please take note that they come in packs of 250.

**Notes:**

- Sealing of service and metering equipment is required in accordance with the Service and Installation Rules of NSW.
- For authorised personnel working on multiple NSW Network Operator networks, there may still be a requirement from other Network Operators to carry on with the practice of using sealing pliers.

Again, for existing authorised personnel with sealing pliers already issued, this practice may continue.

**Harcor Australia**

Unit 3/1 Skyline Place Frenchs  
Forest, NSW 2086 Australia  
Tel: + 61 (0)2 9454 4200  
E-mail: [sales@harcor.com.au](mailto:sales@harcor.com.au)

### **What is 'Power of Choice' metering?**

On 26 November 2015, the AEMC made a final rule that will open up competition in metering services and will give consumers more opportunities to access a wider range of services.

The new arrangements, which will commence on 1 December 2017, have required changes to the National Electricity Rules (NER) and the National Electricity Retail Rules (NERR). The final rule changes who has overall responsibility for the provision of metering services by providing for the role and responsibilities of the Responsible Person to be performed by a new type of Registered Participant - a Metering Coordinator. Any person can become a Metering Coordinator subject to satisfying certain registration requirements.

Retailers are required to appoint the Metering Coordinator for their retail customers, except where a party has appointed its own Metering Coordinator.

More information: <http://www.aemc.gov.au/Major-Pages/Power-of-choice>

### **What happens with the current process?**

From 1 December 2017 ASPs are not permitted to install basic meters (Type 5 & 6).

Bulk Limit on Meter Issue:

- As per the current process, all metering/relay equipment issued to ASPs should be installed within 30 days of issue.
- ASPs are reminded to deplete their stock before 30 November to avoid unnecessary cost.
  - Endeavour Energy will accept and credit returned meters and relays up to 30 Sep 2017.
  - Equipment that remains in ASP's stock following 30 September will be the responsibility of the ASP and will not be accepted back or be credited by Endeavour Energy.
  - ASPs will be unable to use any meters or relays held by them after 30 November and should dispose of this equipment as they will be redundant.

Important Changes to Issuing of Load Control Devices:

- Endeavour Energy will NOT issue any Load Control Devices (relays and time switches) for green field or new Load Control requests at an existing site post 1 December 2017 (Load Control can be achieved via the smart meter).

Any eNOSW submitted after 30 November 2017 for a meter installed after this date will be investigated as they are illegal connections.

### **How will this change affect authorisation to 'Install Type 5 and 6 Metering'?**

Endeavour Energy does not have a requirement for a metering provider to be authorised to remove basic metering (Type 5 & 6) when replacing with advanced metering (Type 1-4) as any safety issues are managed through the Office of Fair Trading & and Retailer.

When a type 5 or 6 meter is removed as part of a service upgrade the final reading must be submitted on the eNOSW.

## 8.0 CONTACT INFORMATION

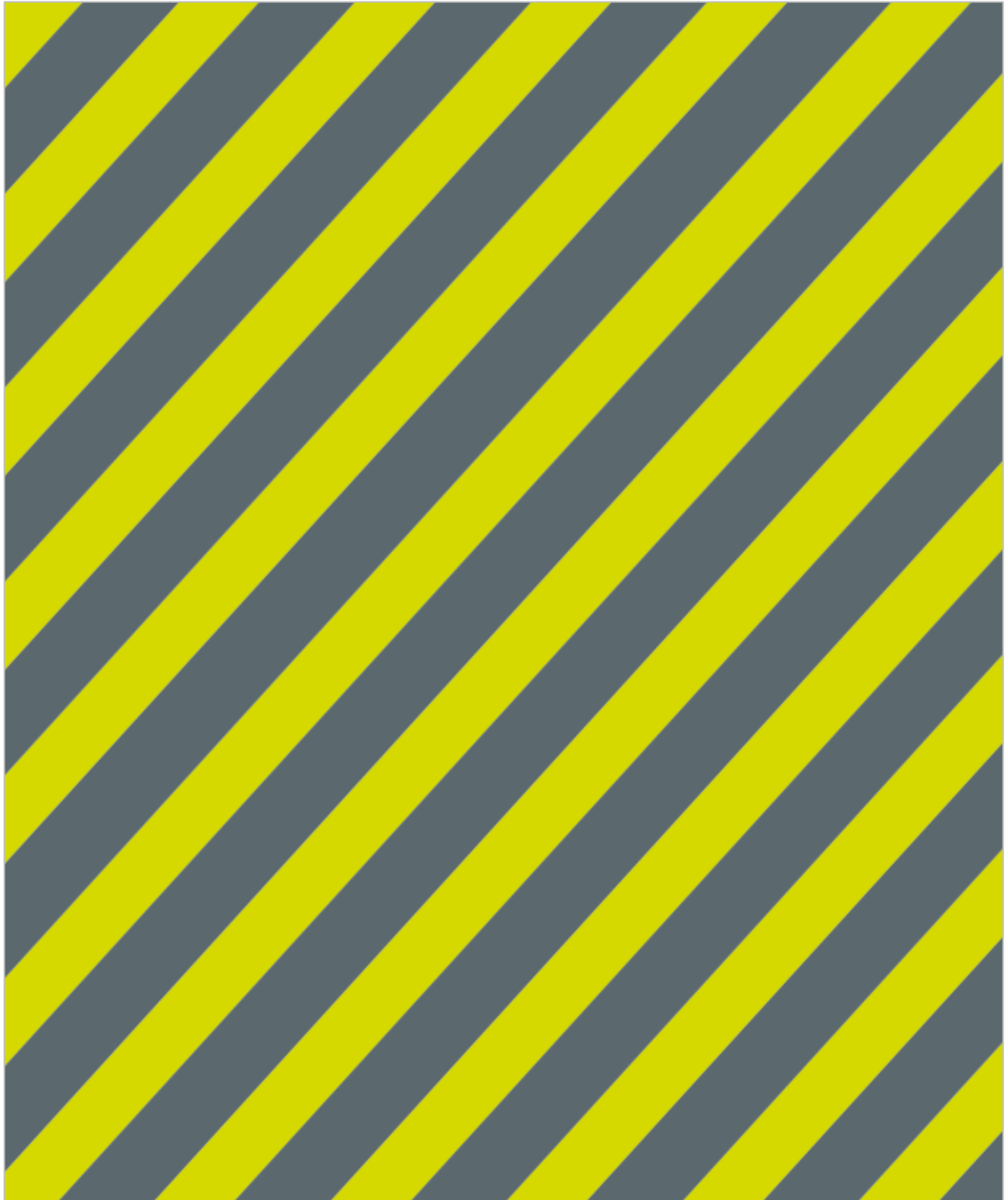
### Enquiries:

- For authorisation enquires regarding applications, processing, etc., please contact: [authorisations@endeavourenergy.com.au](mailto:authorisations@endeavourenergy.com.au)
- For Endeavour Energy Electrical Safety Rules or general electrical safety advice, please contact: [electrical.safety@endeavourenergy.com.au](mailto:electrical.safety@endeavourenergy.com.au)
- For Training Delivery enquiries, please contact: [technical.training@endeavourenergy.com.au](mailto:technical.training@endeavourenergy.com.au)
- For technical enquiries, please contact: [inspection@endeavourenergy.com.au](mailto:inspection@endeavourenergy.com.au)
- For NOSW app enquiries, please contact: [noswapp@endeavourenergy.com.au](mailto:noswapp@endeavourenergy.com.au)

### Other useful links:

- [Endeavour Energy Accredited Service Provider Homepage](#)
- [Endeavour Energy Safety Resource Library](#)
- [Accredited Service Provider \(ASP\) Scheme and contestable works](#)
- [Service and Installation Rules of New South Wales](#)
- [Electricity Industry Safety Steering Committee Guidelines](#)
- [Australian Government Asbestos Information](#)
- [Safe Work NSW Work Near Overhead Powerlines Code of Practice 2006](#)
- [Safe Work NSW Work Near Underground Assets Guide 2007](#)





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