

# ELECTRICAL SAFETY AUTHORISATIONS

**Authorisations Manual** 

**Electrical Safety & Performance** 

**March 2018** 



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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

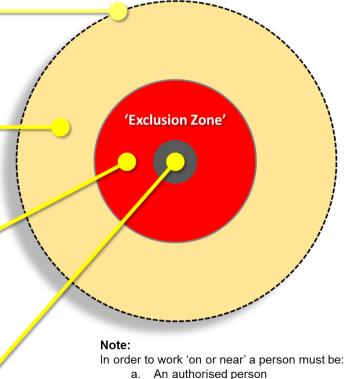
# **Working Near** (within 3 metres of the network)

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 anv 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.

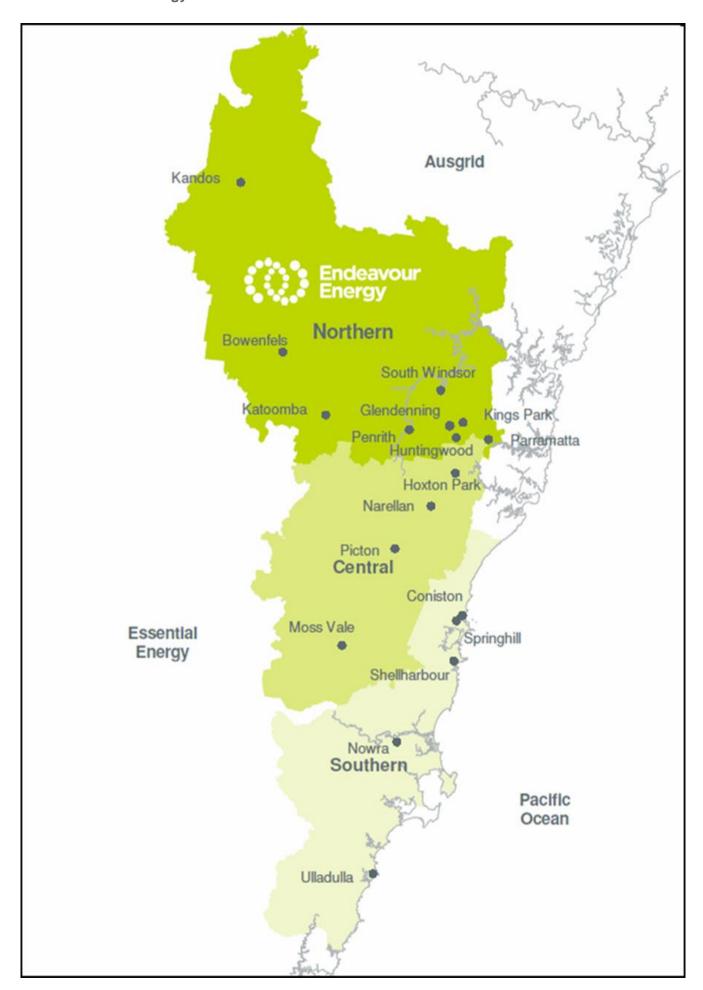
**Working On** (in contact with the network)



- 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.





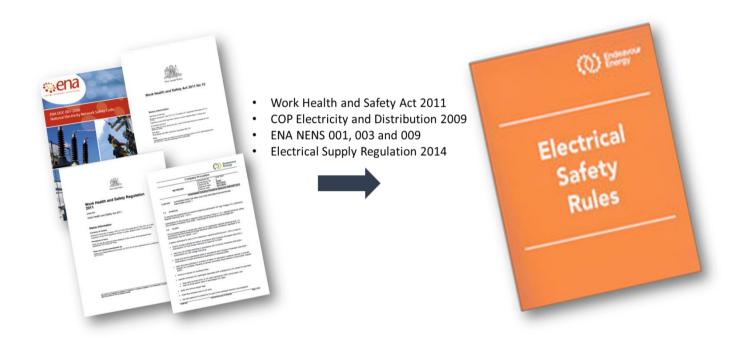
# 1.3 Electrical Safety Rules

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



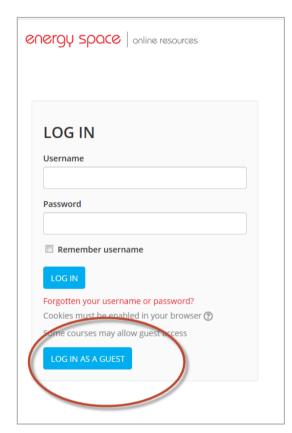
# 1.4 Mandatory asbestos awareness training

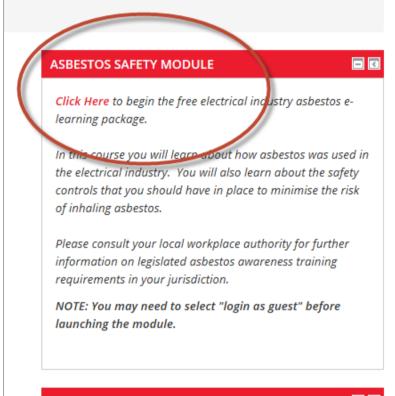
All authorisations where asbestos containing material is likely to be encountered require the worker to undertake a basic asbestos safety introduction e-learning module.

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:





# 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.

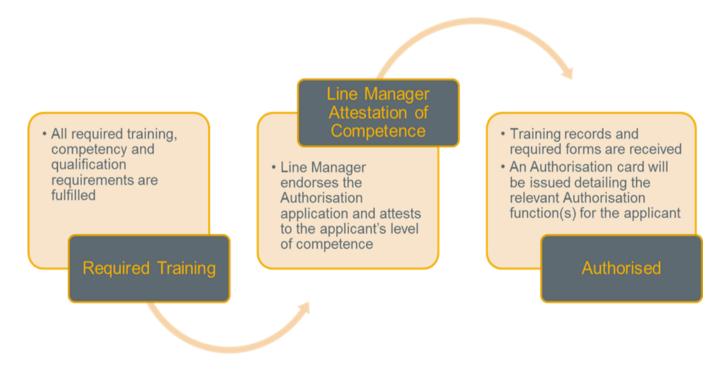
There are a range of requirements specified for each authorisation function. These generally include a qualification, certain specialised initial training courses, and a range of refresher training that needs to be completed each year.

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:

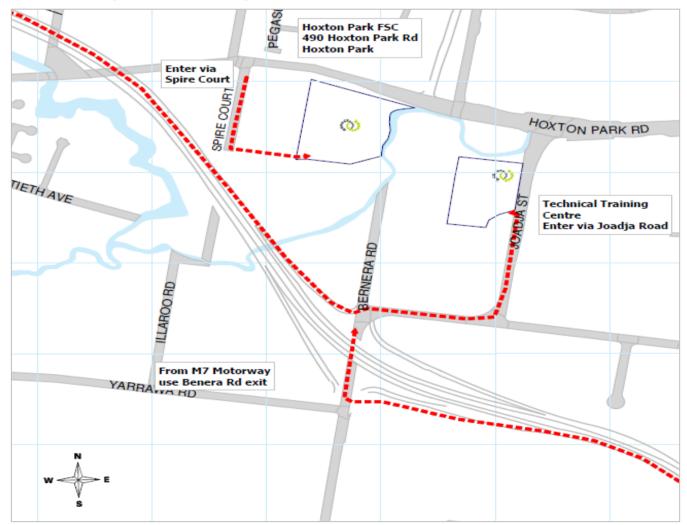
- Initial Electrical Safety Rules training
- Substation entry training
- Access Authority training
- LV and HV switching training

## Contact:

Email: technical.training@endeavourenergy.com.au

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 <a href="http://training.gov.au/">http://training.gov.au/</a>. 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' - <a href="http://training.gov.au/Training/Details/UET12">http://training.gov.au/Training/Details/UET12</a>

# 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
Endeavour Energy 02 9853 7522 www.endeavourenergy.com.au	Endeavour Energy	Accredited to deliver		Accredited to deliver
Coates / Admire Workplace Safety www.coateshire.com.au/training/ (02) 9612 0200 http://admireworkplacesafety.com.au/ (02) 4869 5663	Admire Workplace Safety Coateshire	Accredited to deliver		
IAC 1300 887 317 www.iacsafetyservices.com.au/		Accredited to deliver		Accredited to deliver
Pipeline Training Australia (02) 9679 0066 www.pipelinetraining.com.au/	pipe ine	Accredited to deliver		Accredited to deliver
TAFE – Hunter Institute 131225 www.hunter.tafensw.edu.au/pages/default .aspx	HUNTER TAFE	Accredited to deliver		
TAFE - (SWSI) (02) 9643 4500 <a href="https://swsi.tafensw.edu.au/">https://swsi.tafensw.edu.au/</a>	TAFE SWSI South Western Sydney Institute	Accredited to deliver		
Enersafe Training (02) 8602 2000 <a href="https://www.enersafe.com.au/">https://www.enersafe.com.au/</a>	ENERSAFE	Accredited to deliver		
NECA Training (02) 9188 4424 www.necatraining.com.au	neca TRAINING national electrical and communications association	Accredited to deliver		
Essential Energy Training Services 13 23 91 www.essentialenergy.com.au	essential energy	Accredited to deliver		
Aurecon Group (08) 8919 9777 https://www.aurecongroup.com/	aurecon	Accredited to deliver		
Power Safety Training (formerly Workspace Training) (07) 3288 8800 www.powersafetytraining.com.au	Power Safety Training	Accredited to deliver	Accredited to deliver	
Interlink Training 1300 731 669 <u>www.interlinktraining.com.au</u>	InterLink Training Professional Training Columns		Accredited to deliver	
Thoughtplanters +64 9522 8711 https://www.thoughtplanters.com/	thought planters		Accredited to deliver	
CTC Safety 02 9979 7888 http://ctcsafety.com.au/	Be Smart. Be Safe.	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:

- <u>direct supervision</u> 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
- <u>general supervision</u> 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.
- <u>broad supervision</u> 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**

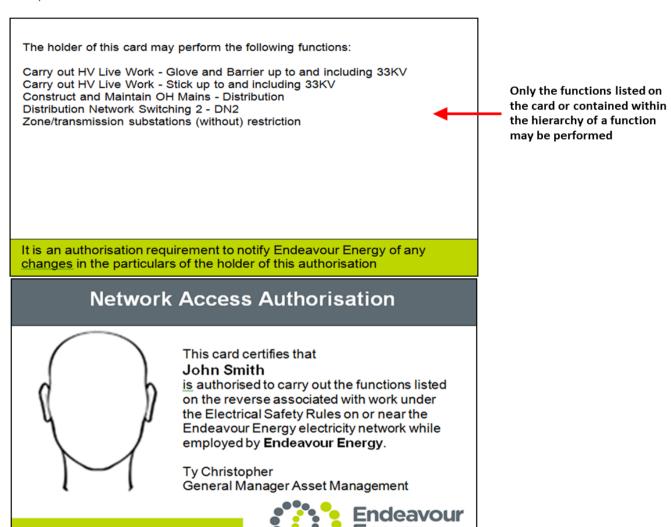
In order to provide evidence of appropriate authorisation, a network access authorisation card must be issued listing the specific functions a person is authorised to carry out.

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:



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.



Anniversary: 18/03/2018

# 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





# 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 deenergised apparatus. Generally speaking, worksite coordinators/supervisory personnel hold these authorisation functions.
- Earthing is an integral step in providing safe access to deenergised 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.





- 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
- Vegetation Control Specialised Machinery Operator/Observer
- Vegetation Control Ground Vegetation Control
- Vegetation Control EWP Operator/Observer
- Vegetation Control Within tree (climbing)
- Close Approach Vegetation Control Ground Vegetation Control
- Close Approach Vegetation Control EWP Operator/Observer
- Carry out 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.

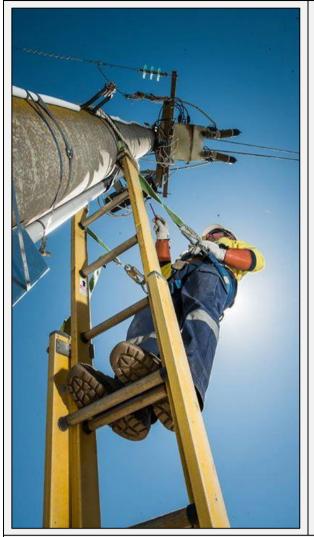
Further detail in section 6.12



- 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 quidance 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 nonconstruction 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 Overhead Linework 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 includina 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

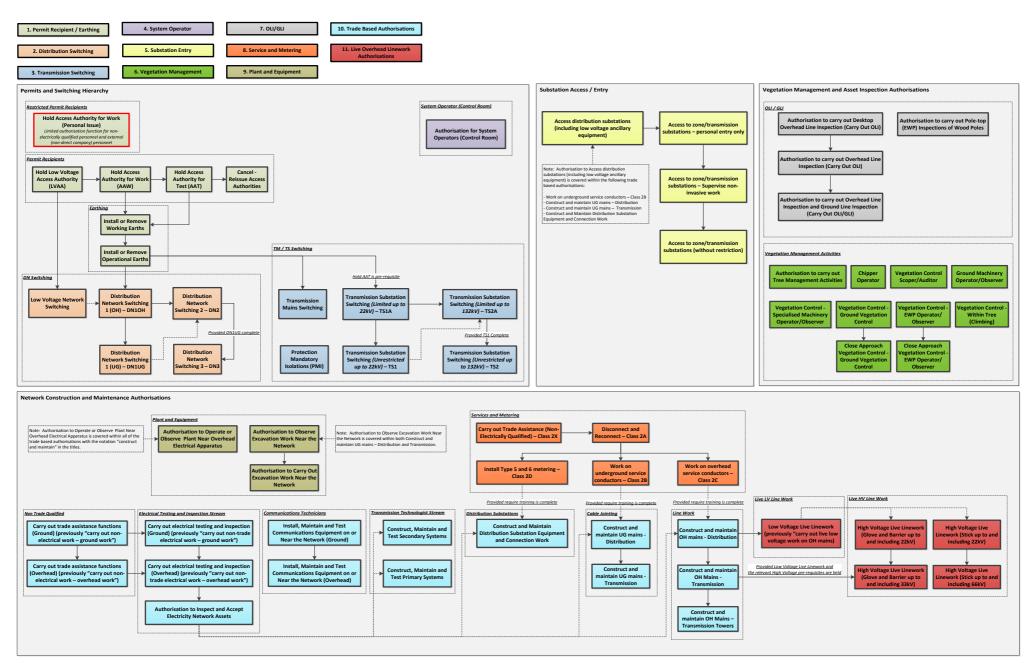




- Low Voltage Live Linework (previously "carry out live low voltage work on OH mains)
- High Voltage Live Linework (Glove and Barrier up to and including 22kV)
- High Voltage Live Linework (Stick up to and including 22kV)
- High Voltage Live Linework (Glove and Barrier up to and including 33kV)
- High Voltage Live Linework (Stick up to and including 66kV)

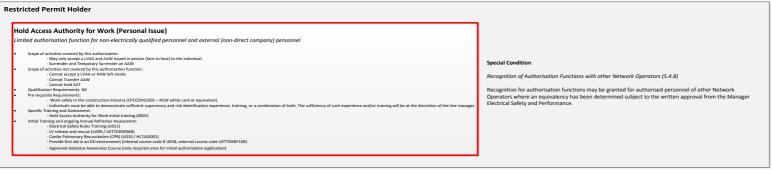


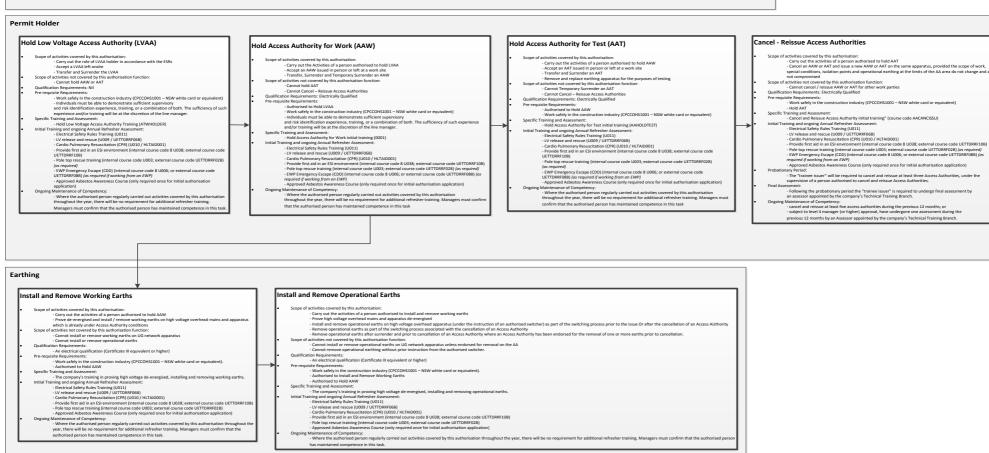
# 6.3 Authorisation hierarchy overview



## 6.4 Authorisation Schedule 1

### **Permit Recipient and Earthing Authorisation Hierarchy**







### 6.5 Authorisation Schedule 2

### **Distribution Switching Authorisation Hierarchy**

Switching Non-Network Systems is not applicable and does not require authorisation (GSV0093)

Non-network systems include:

1. Vi supply 10 Substation Voltage Transformers

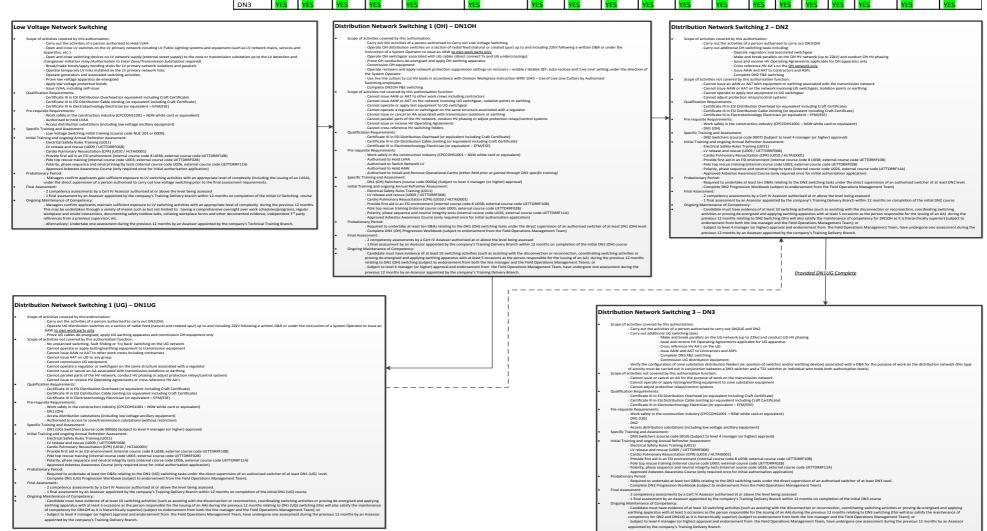
- awainary 20/04/05 viot station systems (fines, pamps, motor supplies, etc)

- Author Temperory injection (all IAPL 23/04/05 viot supply systems

- VV arrives and matering west keybod fine connection point

- non-intercrital pursons or neerby

	Issue	Issue	Issue	Issue	Commissioning	Commissioning	HV	HV	Fault	Fault	HV	HV	Issue	Issue	Issue	Issue	Cross	Regulator	Set
	AA	AA to	AAW	AAW on	ОН	UG	Phasing	Phasing	Finding	Finding	Parallel	Parallel	AAT	AAT	OA	OA	reference	By pass	Reclosers
	to	other	on OH	UG			он	UG	and Try	and Try	он	UG	ОН	UG	ОН	OG	AA"s and	and	to N/A
	Work	crews							Back OH	Back UG							folders	isolation	
	Party	or															1	point	
		contrac															1		
		tors																	
DN10H	Yes	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	<mark>0</mark>	NO	NO	NO	YES
DN1UG	YES	NO	YES	YES	YES	NO	YES	NO	YES	NO	NO	NO	NO	NO	0 2	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



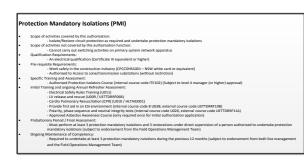


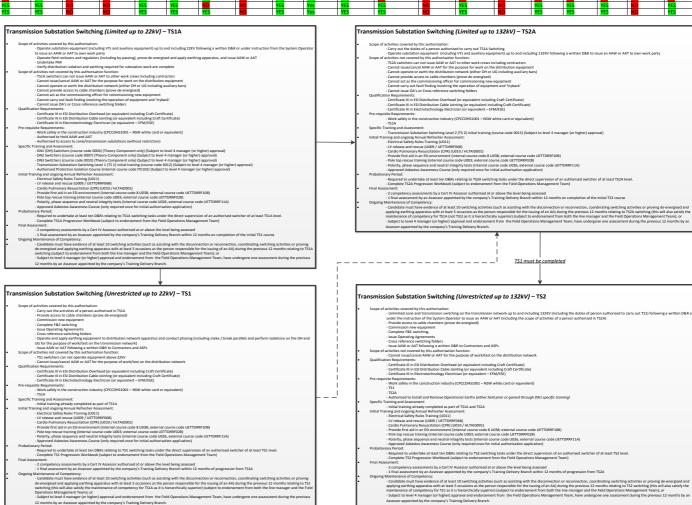
### 6.6 Authorisation Schedule 3

### **Transmission Switching Authorisation Hierarchy**

		_																				
	Carry	Issue	Issue AAW	Switch	Issue AAW	Issue AAW	Switch	Issue AAW	Issue AAW	Issue AAW	Field	Switch and	Issue	Issue AA's for	Commission	Commission	Fault Finding	Fault	Distribution	Cross	Issue OA on	Issue OA on
	out	AAW	to other	Substation	and AAT on	on OH	inside	and AAT	and ATT on	and AAT on	Reclosers	Issue AAW	Substation	access to cable	Transmission	Transmission	and Try Back	Finding	HV	Reference	Transmission	Transmission
	PMI	to	crews or	&	OH	Distribution	Substation	on	33/66/132KV	Distribution	Protection	and AAT on	CB	chambers/prove	OH mains	Substation	on OH	and Try	switching	AA's and	OH mains	Substation
		Work	contractors	Switching	Transmission	Mains	&	11/22kv	Substation &	Mains	Control	Distribution	maintenance	de-energised		equipment	Transmission	Back on	and parallel	folders		Equipment
		Party		Station	Mains	associated	Switching	Substation	Switching	(other than	change	Regulators	AAW and				mains	Substation	of			
				Line		with	Station	&	Station	Reclosers	_	& Reclosers	AAT					&	OH & UG			
				isolator		transmission	(other	Switching	Equipment	and								Switching				
				and		mains work	than Line	Station		Regulators								Station				
				associated			isolator	Equipment		and								Equipment				
				VT only			and			Distributions												
							associated			Mains												
							VT only)			associated												
							,			with												
										Transmission												
										work)												
TM	NO	VES	NO	VES	VES	YES	NO	NO	NO	NO	YES	NO	NO	NO	VES	NO	VES	NO	NO	YES	VES	YES
TS1A	VEC	VCC	100	VEC	100	<u> </u>	VEC	VEC			VCC	VCC	VCC	-						100	-	
	100	100	NO.	163	100	100	163	IES VEC	W.C.	100	IES	150	I Co	-	100	NO.	NU	NU.	2	-		NO.
TS2A	YES	YES	NU	YES	NU	NU	YES	YES	YES	NO	TES	YES	YES	NU	NO	NU	NU	NU	NU	NU	NO	NO
TS1	YES	YES	YES	YES	NO	NO	YES	YES	NO	NO	YES	Yes	YES	YES	NO	YES	NO	YES	YES	YES	NO	YES
TS2	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO	YES	Yes	YES	YES	NO	YES	NO	YES	YES	YES	NO	YES

Scope of activities covered by this authorisation:
<ul> <li>Operate Overhead transmission field switches and outdoor line isolators within substations up to including 132kV following a written D&amp;R or under</li> </ul>
instruction of a System Operator
Check open outdoor circuit breakers
- Isolate VT's
Operate 33kV field reclosers
<ul> <li>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 w</li> <li>Prove de-energised and apply overhead earthing apparatus including outdoor line earth switchers</li> </ul>
Frow out-energised and apply overment earthing apparation including outdoor mit earth switchers     Commission OH transmission equipment. Issue or Receive Operating Agreements on overhead transmission equipment only
Scope of activities not covered by this authorisation function:
scope or activities not covered by this administration function:  This 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 earths on the transmission network for clearance on joint uses
poles as part of an erection AAW
Qualification Requirements:
<ul> <li>Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)</li> </ul>
<ul> <li>Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate)</li> </ul>
Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE)
Pre-requisite Requirements:
<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)</li> </ul>
- Authorised to Hold AAW
<ul> <li>- DN1OH theory and practical (to satisfy underpinning knowledge, not for the purpose of authorisation)</li> <li>- Authorised to enter to zone/transmission substations (without restriction)</li> </ul>
- Authorised to enter to zone/transmission substations (without restriction) Specific Training and Assessment:
specific training and Assessment.  - Transmission Mains Switching initial training (course code 0011) (Subject to level 4 manager (or higher) approval)
- Harismosion wains Switching inter training (consectore out) (Subject to level 4 manager (or righter) approval)  Initial Training and oncoing Annual Refresher Assessment:
- Electrical Safety Rules Training (UO11)
- LV release and rescue (U009 / UETTDRRF06B)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)</li> </ul>
<ul> <li>Pole top rescue training (internal course code U003; external course code UETTDRRF02B)</li> </ul>
<ul> <li>Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)</li> </ul>
<ul> <li>Approved Asbestos Awareness Course (only required once for initial authorisation application)</li> </ul>
Probationary Period:
<ul> <li>Required to undertake at least ten D&amp;Rs containing TM Switching, under the direct supervision of a person authorised to carry out at least TM Switching</li> </ul>
<ul> <li>Complete TM Progression Workbook (subject to endorsement from the Field Operations Management Team)</li> </ul>
Final Assessment:
<ul> <li>2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed</li> <li>1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TM course</li> </ul>
- 1 mai assessment by an assessor appointed by the company's framing perivery branch within 12 months on completion of the linual factorise.  Ongoing Maintenance of Competency:
- Required to undertake at least 10 DBRs containing TM Switching during the previous 12 months (subject to endorsement from both the line manager a
<ul> <li>- required to interchase at each to basis to basis to have containing the sweeting during the previous 12 months (subject to endorsement from both one line manager at the Field Operations Management Team): or</li> </ul>
- Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment duris
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.



#### **Authorisation Schedule 5** 6.8

### **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
- 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 / UETTDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)

  - Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
  - 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
  - - 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.
- - 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 / UETTDRRF06B)

  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 II038; external course code IJETTDRRE108)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

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

- - 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:
    - Flectrical 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 UFTTDRRF10R)
    - Approved Asbestos Awareness Course (only required once for initial authorisation application

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

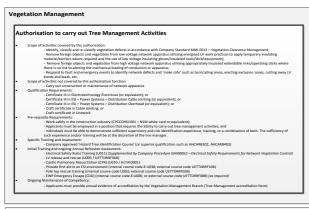
- Scope of activities covered by this authorisation
  - Carry out the duties of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to
  - Access and supervise any work activity in zone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rule

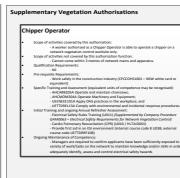
  - An Electrical qualification (Certificate III or higher)
- Pre-requisite Requirements:
  - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent); and
- Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination 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 / UETTDRRF06B)
  - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Provide first aid in an ESI environment (internal course code 8 UO38; external course code UETTDRRF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)



## **Authorisation Schedule 6**

### **Vegetation Authorisation Hierarchy**



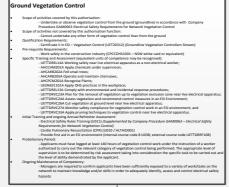


# Vegetation Control Scoper/Auditor Pro-requisite Requirements: - Work safely in the construction industry (CPCCOHSD01 - NSW white card or equivalent) Specific Training and Assessment (equivalent units of competence may be recognised). Specific Training and Assessment (equivalent units of competence may be recognised). - UNINTEGED Analytic Office of the workplace; - UNITINGELIA Comply with environmental and incidental response prondures; - UNITINGELIA Alter for the removed of vegetation up to vegetation exclusion norm ear five electrical - UNITINGELIA Alter for the removed of vegetation up to vegetation exclusion norm ear five electrical apparation. "UFTDR/VCAA Assess vegetation and recommend control measures in an ESI Environment, and -Company approved "Hazard" the identification Course (or superior qualification such as AHCMBBIDZ, -Company approved "Hazard" the identification Course (or superior qualification such as AHCMBBIDZ, -Estimated pade opposite countil affectived Assessment - Electrical Safety Relucements of Whereas (Vegetation Control) - Electrical Safety Relucements (or Merical Vegetation Control) - Curior Onlineary Resociation (CMI) (DUID) (HITADIOD) - Curior Onlineary Resociation (CMI) (MID) (MID

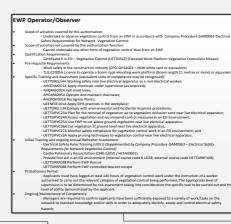


# **Vegetation Control** Specialised Machinery Operator/Observer Scope of activities covered by this authorisation Operator or observe specialist vegetation control glant and machinery in accordance with the clearances specified within Company Procedum GAMOSE Selectrical Safety Sequiements for Newski Vegetation Control Scope of activities not covered by this authorisation function: — Cannot operator or observe plant and machinery for any purpose other than specialist vegetation control Qualification Requirements: - Certificate II in ESI – Vegetation Control (UET20312) (Groundline Vegetation Controllers Stream)

maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards



Close Approach Vegetation Control (CAVC)



	Scope of activities covered by this authorisation:
	<ul> <li>Undertake or observe vegetation control from within a tree in accordance with Company Procedure GAM0063 Electrical</li> </ul>
	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:
	<ul> <li>Certificate II in ESI = Vegetation Control (UET20312) (Within Tree (climbing) Vegetation Controllers Stream)</li> </ul>
	Pre-requisite Requirements:
	- Work safely in the construction industry (CPCCOHS1001 - NSW white card or equivalent)
	- TLILIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more) or equivalent
	Specific Training and Assessment (equivalent units of competence may be recognised):
	<ul> <li>- UETTDREL14A Working safely near live electrical apparatus as a non-electrical worker;</li> </ul>
	- AHCCHM201A Apply chemicals under supervision (as required);
	- AHCARB202A Fell small trees;
	- AHCARB204A Undertake standard climbing techniques;
	- AHCARB20SA Operate and maintain chainsaws;
	- AHCPCM201A Recognise Plants;
	- UEENEEE101A Apply OHS practices in the workplace;
	<ul> <li>- UETTDREL13A Comply with environmental and incidental response procedures;</li> </ul>
	<ul> <li>UETTDRVC21A Use climbing techniques to cut vegetation near live electrical apparatus;</li> </ul>
	<ul> <li>UETTDRVC23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;</li> </ul>
	<ul> <li>- UETTDRVC24A Assess vegetation and recommend control measures in an ESI Environment;</li> </ul>
	<ul> <li>- UETTDRVC26A Cut vegetation at ground level near live electrical apparatus;</li> </ul>
	<ul> <li>- UETTDRVC27A Monitor safety compliance for vegetation control work in an ESI environment;</li> </ul>
	<ul> <li>- UETTDRVC33A Apply pruning techniques to vegetation control near live electrical apparatus; and</li> </ul>
	<ul> <li>- UETTDRVC34A Undertake release and rescue from a tree near live electrical Apparatus.</li> </ul>
•	Initial Training and ongoing Annual Refresher Assessment:
	<ul> <li>Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM0063 – Electrical Safety Requirements</li> </ul>
	for Network Vegetation Control)
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)</li> </ul>
	<ul> <li>- UETTDRVC34A Undertake release and rescue from a tree near live electrical apparatus (evidence of successful completion</li> </ul>
•	Probationary Period:
	<ul> <li>Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to</li> </ul>
	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:
	<ul> <li>Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to</li> </ul>
	maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards

	Certificate II ESI – Powerline Vegetation Control Pathways	Unit of competence	Ground line vegetation controllers	EWP vegetation controllers	Within tree (climbing) vegetation
1 5 8	Apply Occupational Health Safety regulations, codes and practices in the workplace	UEENEEE101A	✓	_	controllers ✓
Vegetation Core Units	Comply with sustainability, environmental and incidental response policies and procedures	UETTDREL13A	<b>✓</b>	1	<b>✓</b>
Vege Core	Working safely near live electrical apparatus as a non-electrical worker	UETTDREL14A	<b>~</b>	<b>/</b>	<b>✓</b>
Certificate Powerline Control - C	Operate and maintain chainsaws	AHCARB205A	<b>~</b>	<b>/</b>	✓
wer	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	UETTDRVC23A	<b>✓</b>	<b>/</b>	<b>✓</b>
ర 2 ర	Monitor safety compliance of vegetation control work in an ESI environment	UETTDRVC27A	✓	<b>✓</b>	<b>✓</b>
ne ne	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	TLILIC2005A		<b>/</b>	
owerline Elective	Fell Small Trees	AHCARB202A	<b>✓</b>		
§	Apply chemicals under supervision	AHCCHM201A	<b>V</b>		
1 E 8	Undertake standard climbing techniques	AHCARB204A			<b>✓</b>
in ESI - Control Units	Use climbing techniques to cut vegetation above ground near live electrical apparatus	UETTDRVC21A			<b>/</b>
= -	Use elevated platform to cut vegetation above ground level near live electrical apparatus	UETTDRVC25A		<b>V</b>	
Certificate II Vegetation	Cut vegetation at ground level near live electrical apparatus	UETTDRVC26A	✓		
ege	Apply pruning techniques to vegetation control near live electrical apparatus	UETTDRVC33A	✓	<b>✓</b>	✓
് >	Undertake release and rescue from a tree near live electrical apparatus	UETTDRVC34A			<b>/</b>

Clo	se Approach Vegetation Control - Ground Vegetation Control
	Scope of activities covered by this authorisation:
	<ul> <li>- Undertake or observe close approach vegetation control from the ground (groundline) in accordance with Company Procedure GAM0063 Electrical Safety Requirements for Network Vegetation Control</li> </ul>
	Scope of activities not covered by this authorisation function:
	<ul> <li>Cannot undertake any other form of close approach vegetation control than from the ground</li> </ul>
•	Qualification Requirements:
	<ul> <li>Certificate II in ESI – Vegetation Control (UET20312) (Groundline Vegetation Controllers Stream)</li> </ul>
•	Pre-requisite Requirements:
	<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent); and</li> </ul>
	<ul> <li>Hold a current authorisation for Vegetation Control - Ground Vegetation Control</li> </ul>
•	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:
	<ul> <li>Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM0063 – Electrical Safety Requirements for Network Vegetation Control)</li> <li>Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)</li> </ul>
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)</li> </ul>
•	Probationary Period:
	<ul> <li>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</li> </ul>
	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:
	<ul> <li>Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or</li> </ul>
	skills in order to adequately identify, assess and control electrical safety hazards; and

Ye-requisite Requirements:
<ul> <li>Work safely in the construction industry (CPCCOHS1001 = NSW white card or equivalent);</li> </ul>
<ul> <li>TLILIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more) or Equivalent; and</li> </ul>
<ul> <li>Hold a current authorisation for Vegetation Control - EWP Operator/Observer</li> </ul>
pecific Training and Assessment (equivalent units of competence may be recognised):
- Company approved Close Approach Vegetation Control (CAVC) Course
nitial Training and ongoing Annual Refresher Assessment:
<ul> <li>Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM0063 – Electrical Safety Requirements for Network Vegetation Control)</li> </ul>
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)</li> </ul>
- UETTDRRF03B Perform EWP Rescue
- UETTDRRF08B Perform EWP controlled descent escape
robationary Period:
. Annitrants must have ingged at least 140 hours of close annoyarh vegetation control work under the instruction of a worker authorised to carry out the

Stope of substitute cereal by this authorisation.

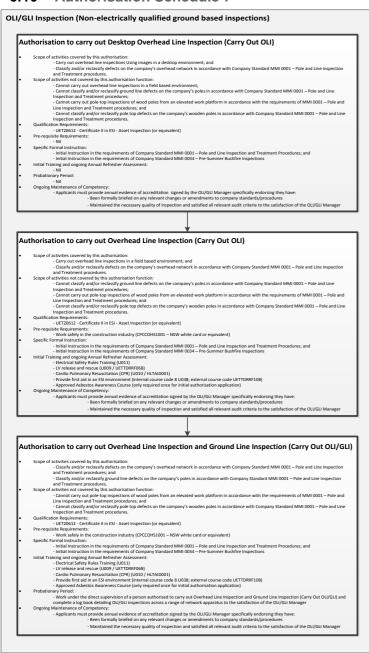
- Understate observed class approach registation control from an EMP in accordance with Company Procedure GAMDIGE Extrical Safety Requirement Stope.

- Control Con

Applicants much have logged at least 340 hours of some approach regardance control work under the instruction of a worker authorised to call the concentration of the profession of the control of an extra the profession of the pr

Close Approach Vegetation Control - EWP Operator/Observer

## 6.10 Authorisation Schedule 7



Pole Top Inspection (Electrically qualified specialist inspections carried out aloft) Authorisation to carry out Pole-top (EWP) Inspections of Wood Poles 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 - 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 Scone 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 overhead network in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures; tion Requirements:
- An electrical qualification (Certificate III equivalent or higher) Pre-requisite Requirements: - Work safely in the construction industry (CPCCOHS1001 - NSW white card or equivalent): - Work safely in the construction industry (PCCOMS1001 – NSW white card or equivalent);

- High lisk Work Licencies() for various letters 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 Nutles Training (UOII) - Telectrical Satery Rules 1 training (UU:1.)

LY release and Esseue (U009 / UETTORRF06B)

- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)

- Provide first all in an EST environment (Internal course code 8 U038; esternal course code UETTDRRF10B)

- EWP Emergency Escape (CDD) (internal course code 8 U036; or external course code UETTDRRF08B) Approved Asbestos Awareness Course (only required once for initial authorisation application) Ongoing Maintenance of Competency: 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

Scope of activities covered by this authorisation:
- Perform electrical trade related works 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 persons engaged by a telecommunications network operator on telecommunications assets attached to electricity network operator assets; and
<ul> <li>Perform trades assistant work such as safety observer, rescue assistant and plant operator.</li> </ul>
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:
<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent);</li> </ul>
Specific Training and Assessment:
<ul> <li>- UETTDREL14A - Working safely near live electrical apparatus as a non-electrical worker (or equivalent)</li> </ul>
Initial Training and ongoing Annual Refresher Assessment:
- Electrical Safety Rules Training (U011)
- LV release and rescue (U009 / UETTDRRF06B)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)</li> </ul>
<ul> <li>Pole top rescue training (internal course code U003; external course code UETTDRRF02B)</li> </ul>
<ul> <li>Approved Asbestos Awareness Course (only required once for initial authorisation application)</li> </ul>
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 onsit
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.

Qualification Requirements	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	Non-electrically qualified – 2X
Certificate III in Electrotechnology Electrician (or equivalent)	<b>√</b> #	<b>√</b> #	<b>√</b> #	1	N/A
Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent)	<b>√</b> #	√#			N/A
Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)	√#		<b>√</b> #		N/A

Notes:

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

Initial Training Requirement	Disconnect and Reconnect – Class 2A	Work on underground service conductors – Class 28	Work on overhead service conductors – Class 2C	Install Type 5 and 6 metering – Class 2D	Non-electrically qualified – 2X
Endeavour Energy Electrical Safety Rules training	1	1	1	1	1
UETTDRRF06B Low voltage release and rescue (internal course code 8U009)	1	1	1	1	1
HLTAID001 Perform CPR (internal course code 8U010)	1	1	1	1	٧
UETTDRRF11A Successfully complete test and completion of polarity, phase sequence and neutral integrity tests (internal course code 8U026)	1	-	1	1	
UETTDRRF02B pole top rescue training including pre-climbing safety inspections of poles, both timber and steel (internal course code 8U003)			1		As Required
UETTDRRF08B EWP Emergency Escape (CDD) (internal course code 8 U006):					
UETTDRRF10B First Aid in an ESI Environment	1	1	1	1	1
UETTDREL16A Working safely near live electrical apparatus	1			1	
UETTDREL14A Working safely near live electrical apparatus as a non-electrical worker					1
Approved asbestos awareness training	1	1	1	1	7

Refresher Training Requirement	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	Non-electrically qualified - 2X
Endeavour Energy Electrical Safety Rules training	1	1	1	1	1
UETTDRRF06B Low voltage release and rescue (internal course code U009)	1	1	1	1	1
HLTAID001 Perform CPR (internal course code U010)	1	1	1	1	1
UETTDRRF11A Successfully complete test and completion of polarity, phase sequence and neutral integrity tests (internal course code U026)	*	*	•	1	
UETTDRRF02B pole top rescue training including pre-climbing safety inspections of poles, both timber and steel (internal course code U003)			1		As Required
UETTDRRF10B First Aid in an ESI Environment	1	1	1	1	1

Scone of	activities covered by this authorisation:
scope or	- Carry out the duties of a person authorised to carry out Trade Assistance (Non-Electrically Qualified) – Class 2X:
	Utilise energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves; and
	- Disconnect and reconnect service lines (including energised service lines) at the connection point - but only work at the connection point that does not involve acce-
	network operator assets and no mechanical changes to network assets are required.
Scope of	activities not covered by this authorisation function:
	- Cannot carry out 2B. 2C. 2D
Qualifica	tion Requirements:
	Primary qualification must include at least one of the following:
	Certificate III in Electrotechnology Electrician (or equivalent); or
	<ul> <li>Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent); or</li> </ul>
	<ul> <li>Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)</li> </ul>
Pre-requ	isite Requirements:
	<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)</li> </ul>
Specific '	Training and Assessment:
	- UETTDREL16A Working safely near live electrical Apparatus (or equivalent)
Initial Tr	aining and ongoing Annual Refresher Assessment:
	- Electrical Safety Rules Training (U011)
	- LV release and rescue (U009 / UETTDRRF06B)
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)</li> </ul>
	<ul> <li>Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)</li> </ul>
	- 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 t
	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 a interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3 <sup>rd</sup> party references from a previous employ.
	interactions, documenting safety condox raiss, consuming wompace forms and other documented evidence, morphisment 3 - party references from a previous employ 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 acc

k on underground service conductors – Class 2B
Scope of activities covered by this authorisation:
- Remove and replace an Endeavour Energy security seal;
- Install and connect underground service lines up to the point of supply:
<ul> <li>Install underground service conductors on a distributor pole up to 3m above ground level (note: a person authorised to Work on overhead service conductors — Class 2C</li> </ul>
required to connect the service conductor to the overhead network):
<ul> <li>- Utilise energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves;</li> </ul>
<ul> <li>Disconnect and reconnect service lines/consumers mains to the point of common coupling (including energised connection/disconnection from underground cables and apparatus);</li> </ul>
- Replace service fuse(s), service active(s) and neutral links; and
<ul> <li>Access Distribution Substations (including low voltage ancillary equipment) for the purpose of underground service work.</li> </ul>
Scope of activities not covered by this authorisation function:
- Cannot carry out 2C or 2D
Qualification Requirements:
- Primary qualification must include at least one of the following:
- Certificate III in Electrotechnology Electrician (or equivalent); or
<ul> <li>Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent)</li> </ul>
Pre-requisite Requirements:
<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)</li> </ul>
Specific Training and Assessment:
<ul> <li>- UETTDRISSSA — Install and maintain low voltage underground services (or equivalent)</li> </ul>
Initial Training and ongoing Annual Refresher Assessment:
- Electrical Safety Rules Training (U011)
- LV release and rescue (U009 / UETTDRRF06B)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)</li> </ul>
<ul> <li>Pole top rescue training (internal course code U003; external course code UETTDRRF02B) (as required for applicants working aloft)</li> </ul>
<ul> <li>Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)</li> </ul>
<ul> <li>Approved Asbestos Awareness Course (only required once for initial authorisation application)</li> </ul>
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 o
interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3rd party references from a previous employer/
supervisor, etc.

w	ork on overhead service conductors – Class 2C
•	Scope of statistics converd by this authorization:  - Remore and ripica as inforeations from the point of common coupling.  - Install and connect coverhead 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 (note: a person authorised to Work on underground service conductors. Class 28 in required to install the service conductors from ground level;  - Reduced leggland an existing overhead service line and restrict supply or comprising or required and the under of low volkage installing glence;  - Disconnection and reconnect service lines at the sport of apopt, and point of common coupling (including emergined connection (disconnection from overhead conductors); and - Replace service fund(), service and extend lines.
ŀ	Scope of activities not covered by this authorisation function: - Cannot carry out 28 or 20
ŀ	Qualification Requirements: - Primary qualification must include at least one of the following: - Centricate III in Electrocechology Electrician (or equivalent); or - Centricate III in Electrocechology Electrician (or equivalent); or - Centricate III in Electrocechology Electrician (or equivalent); or
	Pre-requisite Requirements:
	- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Work safely in the card or equivalent industry (CPCCOHS1001 – NSW white card or equivale
•	Specific Training and Assessment: - UETTORISSSA - Install and maintain low voltage overhead services (or equivalent)
•	Initial Training and cogniging Annual Reference Assessment: - Bethrical Selection (1903) - Vir release and resour (1909) (UST10887068) - Cardio Polamorany Resourcation (PR) (1901) (HTAI0001)
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)</li> <li>Pole top rescue training (internal course code U003; external course code UETTDRRF028)</li> </ul>
	<ul> <li>-EWP Emergency Excape (CDD) (internal course code \$ 0.000; or external course code USTTORRIGIB) (as required for applicants working aloft from an EWP)</li> <li>-Polarity, phase sequence and neutral integrity tests (internal course code UOSE, external course code UETTORRIIA)</li> <li>-Approved Achestos Awareness Course (only required once for initial authorisation application)</li> </ul>
•	Opaging Maintenance of Competency:  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain incoverage and/or skills in order to adequately identify, assess and control electrical safety hazards.  This may be understated through a writery of meness usak a but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and orable interactions, documents gasfety toolbox talks, collating workplace forms and other documented evidence, independent 3° party references from a previous employer/ supervious, ent.
	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:

- Remote and registe an indexvour feergr security such

- Remote and registe an indexvour feergr security such

- Utilities energised by work practices to apply temporary including material function where required and the use of low voltage insulating glores;

- Utilities energised by work practices to apply temporary including material function where required and the use of low voltage insulating glores;

- Discovered range new insulations.

- Scored carry on 28 or 20

- Callifaction Requirements:

- Letternal Applicates:

- Letternal Applicates:

- Letternal Applicates:

- Letternal Applicates:

- Certificate III in Excretechnology (Rectrician) for equivalents, and

- Internal Applicates:

- Certificate III in Excretechnology (Rectrician) for equivalents;

- Certificate III in Exc. Power Systems - Distribution Orbitals (Fig. 5) and 6 Metering on applicant must hold Qualified Supervisor Certificate - Electrical or an Electrochnology (Rectrician) for equivalents;

- Certificate III in Exc. Power Systems - Distribution Orbitals (Fig. 5) and 6 Metering on applicant must hold Qualified Supervisor Certificate - Electrical or an Electrochnology (Rectrician) for equivalents;

- Certificate III in Exc. Power Systems - Distribution Orbitals (Fig. 5) and 6 Metering on applicant must hold Qualified Supervisor Certificate - Electrical or an Electrical Applicates:

- Certificate III in Exc. Power Systems - Distribution Orbitals (Fig. 5) and 6 Metering on applicant must hold Qualified Supervisor Certificate - Electrical or an Electrical Applicates:

- Certificate III in Exc. Power Systems - Distribution Orbitals (Fig. 6) and Fig. 6) and Fig. 6 and F



## 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 pear 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 Assessmen
  - 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:

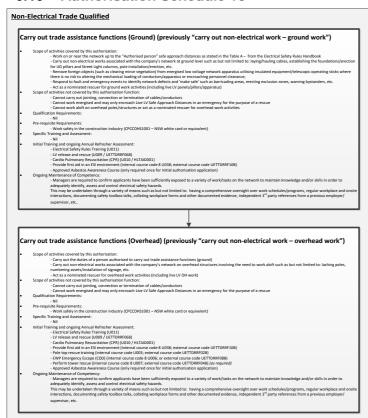
- Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

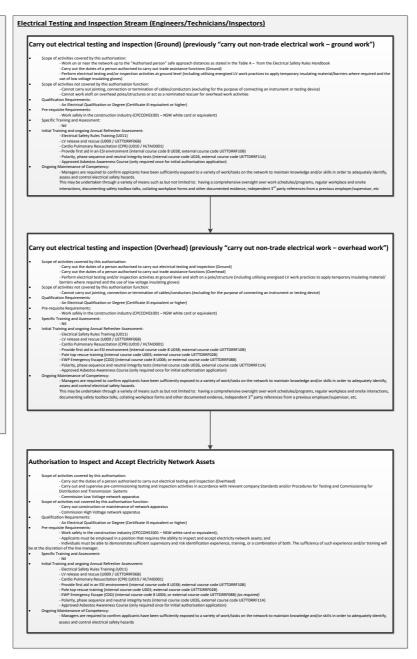
This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules, programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other

documented evidence, independent 3rd party references from a previous employer/supervisor, etc.



### 6.13 Authorisation Schedule 10







# **Distribution Substations** Construct and Maintain Distribution Substation Equipment and Connection Work Act as a contrasted resource for formfolds work scattering from the act presupposes oppositely proposed by the Contrast of making setting and contrast work on a contrast excellent contrast and makina for the adult of the Contrast can demakina for the adult to the Contrast can demakina for the adult to the Contrast the Contrast and makina for the adult to the Contrast can demakina for adult to the Contrast can demakina for adult to the Contrast can demakina for contrast can demakina for contrast can demakina for the Contr hing is required for the operation of generators and associated suching activity) - Feform detectral stelling, consection and/or inspection activities at ground level and aloft on a paleful re- Feform detectral stelling, consection and/or inspection activities at ground level and aloft on a paleful - Operate and obtainer glant hear overhald effectived apparatus (altitudendo and transmission) - Access Distribution betations (including low large accellar perglement) - Access Distribution betations (including low large accellar perglement) - Access Distribution betations (including low large accellar perglement) - Access Distribution betations (including low large accellar perglement) - Access Distribution betations (including low large accellar perglement) - Access Distribution deviations (including low large accellar perglement) - Access Distribution deviations (including low large accellar perglement) - Access Distribution deviations (including low large accellar perglement) - Access Distribution deviations (including low large accellar perglement) - Access Distribution deviation (including low large accellar perglement) - Access Distribution deviation (including low large accellar perglement) - Access Distribution deviation (including low large accellar perglement) - Access Distribution deviation (including low large accellar perglement) - Access Distribution (including low large accellar perglement) - Access Distrib - Cut in certainse in Lauer Johning, or - Card certificate in Lieuward - Card certificate in Initial Training and ongoing Annual Refresher Assessment aining and ongoing Annual Reference Assuments. For Entertral Seley Reis Training (1021) - For Entertral Course Code (1028), external course code (1028), external course code (1028) - For Entertral Course Code (1028), external course code (1028), external course code (1028) - For Entertral Seley Reis Training (1021) - For Entertral Seley Reis Training (1021) - For Entertral Seley Reis (1021) - For Entertral Seley Rei -Approved AMSERIST Ame arms varies years years well as the control of the control

# Cable Jointing Stream Construct and maintain UG mains - Distribution Carry out-underground service work including installation, maintenance, testing and connection with on outsiders installation (paticibuses), pillars, etc.). \*\*Perform described labeling and/or personal translation and one level and after an applicantures (including underground present and secretary installating glowers). \*\*Perform emplaced connections and deconnection of §§ 10 dates and associated equipment (including UCOH connections and 'Blan for flair' components only. \*\*Connect generator college (<u>Including (pathorisations on Carry On Low Voltage Installating glowers)</u> \*\*Connect generator college (<u>Including (pathorisations on Carry On Low Voltage Installating Romers)</u> \*\*Connect generator college (<u>Including (pathorisations on Carry On Low Voltage Interest Sentitible</u> or required for the operation of generators and associated \*\*Acts at the downward or executation when series the endowed presentation and transmission) \*\*Access Conditions described including low voltage activative applications and transmission) \*\*Access Control and Installation (and installations and transmission) \*\*Cannot control and maintain OH maintain \*\*Cannot carry out evergland control and disconnection of [Og IV cables and associated equipment \*\*Cannot carry out evergland control and installation of transmission) \*\*Access Control are experience of the services (son Voltage) to be Lineworth) \*\*Cannot carry out evergland control and installation of the services (son Voltage) to be Lineworth) \*\*Qualification Registerrenances.\*\* in Distribution cable jointing); or - Craft certificate in Cable Jointing. - Electrical Salety Males Training (USI) - Friesza der traces (USI) - Frie Manifestance of Competency: - Hausegers are required to conferm applicants have been extilently appoint to a variety of workfasts on the network to maintain knowledge and/or of - Hausegers are required to conferm applicants have been extiled to the second or the second of the second or the seco onstruct and maintain UG mains - Transmission

# activates covered by this alteriorisation: Carry out the duties of a person authorisation of Contract and maintain UG Mains - Distribution Construct and maintain UG Transmission mains and apparatus Carry out cable ploning and termination work on overhead transmission structures carrying voltages up to and including 132kV activities not covered by this authorisation function: Carrotto construct and maintain OH mains of Carrotto contractions. - Cannot construct and maintain OH mains - Cannot carry out energised overhead linework practices (Low Voltage Live Linework) elevant competencies required to be eligible for a statement of attainm - NII Initial Training and ongoing Annual Refresher Assessment: - Electrical Safety Rules Training (U011) - LV release and rescue (LUDD / LUTTURRF06B) - Cardio Pulmonary Resuccitation (GFR) (U010 / HLTAID001) Cardio Pulmonary Resuscitation (LM) (USU) / HL LAUULU) | Provide first aid in a ES environment (Teheral course code 8 UD38; external course code UETTDRRF108) | Pole top rescue training (Internal course code UD03; external course code UETTDRRF028) | Pole top rescue training (Internal course code UD03; external course code UD05; external course COD (Internal Course CODE UD05; or external course CODE UTFDRRF028) | Polarity, phase sequence and neutral integrity tests (Internal course code UD05, external course code UETTDRRF11A). Annowed Advanctse Austraeres (Courge) vary Period: Almagers confirm applicants gain sufficient exposure to transmission cable jointing activities ranging in type and complexity under the direct supervis peron authorised as a Cable jointer (Transmission) in order to develop the necessary sechnical knowledge f allist to adequately identify, assess and cogeneral authorised as a Cable jointer (Transmission) is the direction of transmission) as the direction of transmission of the direction of tra interfacts allefy hazards, try-setion managements into managements size Manierance of Competers size of Competers siz

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Linework Stream
                                                     Construct and maintain OH mains - Distribution
                                                                                                                                                  Activities covered by this authorisation. "White for adequate property and approach distances as stated in the Table A – from the Electrical Safety Rules Handbook —Act as a nonimised rescue for ground work activities (including the VEX panels/pillas/population).

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                                                                                                                                                  - Carry out overhead service work including installation, maintenance, testing and connection work on unstomer installations (switchboards, POAs, etc.) (Carry out 2A and 2C service work)
- Perform electrical testing and/or inspection activities at ground level and alloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/
barriers where required and the use of low ordage insulating on working and the use of low ordage insulating on the superior of t
                                                                                                                                                          interns where required and the use of two wedges insulinting glowers are contained requirement including LICENT connections and the first live components only). 
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                                                                              Scope of activities not covered by this unbinestion function.

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- Cannot perform energised connection and disconnection of <u>UG</u> LV cables and associated equipment.

- Cannot carry out energised overhead linework practices (Low Voltage Live Linework).

- Cannot carry out construction or maintenance of transmission assets.
                                                                                                                                               inning and original principal content Accessment:

Electrical Safety place: Training (URI)

- L'ur riesea and rescue (1009 / URITORISTOBB)

- L'ur riesea and rescue (1009 / URITORISTOBB)

- L'ur riesea and rescue (1009 / URITORISTOBB)

- Provide first aid in an ESS environmente (internal course code 8 USSB; external course code UETTORISTOBB)

- Provide first aid in an ESS environmente (internal course code USUS); external course code UETTORISTOBB)
                                                                                                                                                  - EWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETTDRRF08B)
- Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
- Approved Absotso Awareness Course
                                                                                                                                        Molectenance of Competency.

In additional control of Competency and Competency a
                                                     Construct and maintain OH Mains - Transmission
                                                                                  Scope of activities not covered by this authorisation function:

- Cannot construct and maintain UG mains
                                                                                                                                               ion Requirements:
- Certificate illi IEST - Power Systems - Distribution Overhead (or equivalent); or
- Certificate illi IEST - Power Systems - Distribution Cable Jointing for equivalent) (with relevant competencies required to be eligible for a statement of attal
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                                                                                  Specific Training and Assessment

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    Approved Asbestos Awareness Course
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                                                                                                                                                  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 ons
                                                                                                                                        documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3rd party references from a previous employer/supervisor, etc.
                                                                           nstruct and maintain OH Mains - Transmission Towers
                                                                                                                                                  - Carry out the duties of a person authorised to Construct and maintain OH Mains - Transmission
                                                                                                                                                      Carry out line work and associated construction/maintenance activities on site littles to these reasons and including $132V$.

Claim you line work and associated construction/maintenance activities on site littles to these carrying voltages up to and including $132V$.

Claim of construct and maintain lof mains

Claim of construction of construction lofts and construction of construction lofts and construction of 

    High Risk Work Licence for Basic Rigging (CPCCLRG3001A - Licence to perform rigging basic level)

Specific Training and Assessment:
                                                                                  Initial Training and ongoing Annual Refresher Assessment
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- Cardio Palmonouy Resociation (PR) (UDIO) (HX10001)
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documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employe



# **Communication Technicians** Install, Maintain and Test Communications Equipment on or Near the Network (Ground) - Work on or next 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/pilliars/apparatus) - Install, maintain and test communications equipment including antennas mounted on Ground level infrastructure Reset/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: Account of any off materials are cristification on primary system network appearatus — Cannot carry out materials are construction on primary system network appearatus — National carry out materials are construction on secondary system enteriors appearatus other than for the purpose of the activities listed in the scope above — Nat permitted to make communications connections to the controller of non-commissioned assets from Requirements. -NS -NS (Regardemonts: -Vork safely in the construction industry (CPCCONS1001 – NSW white card or equivalent) -Ingued circle thy 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 cogging familia Referether Assessment: - Restrict Earliery Moder Training Course (COUTS) - Restrict Earliery Moder Training (COUTS) - LV release and rescue (U009 / UETTDRRF068 - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001) Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) \*\*Working safely near live electrical apparatus as a non-electrical worker (internal course code UEI TURKE-IUB) - Approved Abbestos Awareness Course (only required once for initial authorisation application) - Working slely near the electrical apparatus as a non-electrical worker (internal course code BUDQ-electrical course code UECTDRELIA4) - Approved Absents waverenes Course (por legaried conser (in internal authorisation application) Maintenance of Competency. - Alwayses 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 competencie overwork is the deletaten through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as but not limited to. This may be undertaken through a variety of means such as a formal to the control of 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 <u>openhead infrastructure</u> Scope of activities not covered by this authorisation function: - Carnot carry out maintenance or construction on primary system network apparatus - Carnot carry out maintenance or construction on secondary system network apparatus of the thin of the purpose of the activities listed in the scope above - Not permitted to make communications connections to the controlled rinor-commissioned sixers Qualification Requirements: - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Engaged directly by the company - Engaged directly by the company Specific Taining and Assessment: - An applicant must provide evidence of successful completion of the company's Communications Technician course (course code: COMMSTECI) Intall Training and Assessment: - Electrical Safety Julia Training (1011) - Liv risease and enscue; (1009) (1017) (

- 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

# Construct, Maintain and Test Secondary Systems Scope of activities covered by this authorisation: - Work on or near the extensive by to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook - Act as a nominated recover for ground work activities [including line LV] panels/pillian/apporatus) - Act as a nominated recover for overhead work activities (including line LV D in work) - Carty 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:

Pre-requisite Requirements:
- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
Specific Training and Assessment: Initial Training and ongoing Annual Refresher Assessment:
- Electrical Safety Rules Training (U011)

- IV release and recious (UMS) (LETTIORROSS)
- Cardio Palmonia, Pasculation (CPR) (UMS) H.TADOD1)
- Provide First aid in an LS environment (internal course code & UDS), external course code UETTIORROSS)
- Provide First aid in an LS environment (internal course code & UDS), external course code UETTIORROSS)
- Provide First aid in an LS environment (internal course code) & UDS, or external course code UETTIORROSS) (or required if working from an EWP)
- EVP Emergency Escape (CDD) (internal course code) & UDS, or external course code UETTIORROSS) (or required if working from an EWP)
- EVP Emergency Escape (CDD) (internal course code) & UDS, or external course code UETTIORROSS) (or required internal course code)
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Approved Abhetion Awareness Course (only required once tor mous automation approximation).
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 safely hazards.

This may be undertaken through a variety of memor such as but not limited to I having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safely toolbox talks, collating workplace.

### Construct, Maintain and Test Primary Systems

- LV release and rescue (U009 / UETTDRRF06B)

Scope of activities covered by this authorisation

**Transmission Technologist Stream** 

- Construct and maintain primary systems within a major substation (all equipment operated at voltages defined as HV)

Construct and maintain earthing systems within a substations containing live equipment
 Construct and maintain earthing systems within substations containing live equipment
 Carry out IV testing on network apparatus, and network mains
 Standby fallen counters and make elie distribution apparatus cut away low voltage service conductors. about remocrary insulatine material, erect barricadina, 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

on Requirements: An electrical qualification (Certificate III equivalent or higher)

Pre-requisite Requirements:
- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)

Initial Training and ongoing Annual Refresher Assessment

- Electrical Safety Rules Training (U011)

- LV release and rescue (U009 / UETTD)

- 1. V releas and resours (UMD9 / LUTTORRENGIA)
- Virelation planning Parasitation (PR) (UMD1 / PLTADOUT)
- Provide The stail in an ISE environment (internal course code 8 USS); external course code UETTORRE108)
- Provide for securit braining internal course code USS; external course code UETTORRE108)
- EWP timergency Escape (EDD) (internal course code SUGS); or external course code UETTORRE108) (as required if working from an EWP)
- EWP timergency for substituted structures to the highly (transformer encurse) (internal code USS); or external course code USS); or external course code USS or external course code UST DRRE11A)
- Pularity, phase sequence and neartial integrity tests (internal course code USS); external course code UST DRRE11A)
- Approved Alberton Autherties Course (only in capitation from a final integrity tests) (internal course code USS); external course code UST DRRE11A)

Ongoing Maintenance of Competency:

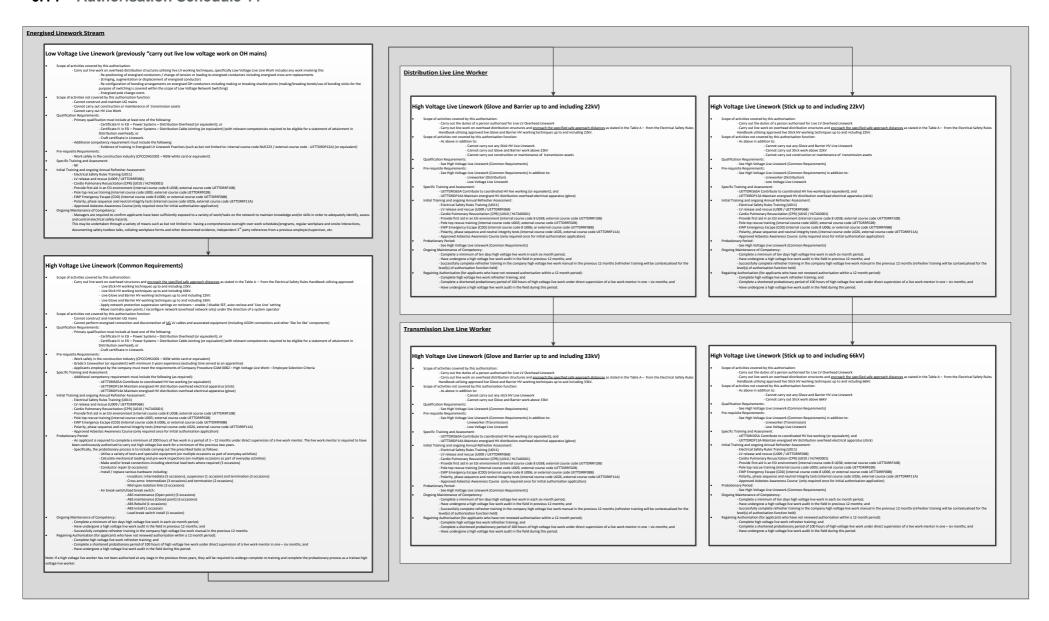
- Managers are required to confirm applicants have been sufficiently exposed to a variety of work/task on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

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 boolloot tasks, collating workplace forms and other documented evidence, independent 3rd party references from a previous employer/supervisor, etc.



forms and other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## 6.14 Authorisation Schedule 11





# 6.15 Accredited Service Provider Class Authorisation Function Matrix

ASP Class Category	'Trade Based' Authorisation Function	Other Authorisation Function(s) as required			
Level One					
Class 1A (previously known as Category 1 Overhead) – Overhead – work on or near the overhead electricity network	<ul> <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> <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  Class 1C – (previously known as Category 2b Underground) – Underground Polymeric only	<ul> <li>Construct &amp; Maintain Under Ground Mains         <ul> <li>Distribution; or</li> </ul> </li> <li>Construct &amp; Maintain Under Ground Mains         <ul> <li>Transmission</li> </ul> </li> </ul>	<ul> <li>Hold Low Voltage Access Authority (LVAA); or</li> <li>Hold Access Authority for Work (AAW)</li> </ul>			
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> <li>Carry out trade assistance functions (Ground); or</li> <li>Carry out trade assistance functions (Overhead)</li> </ul>	<ul> <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>			



Level Two		
Class 2A (previously known as Category 1) – Disconnect and reconnect — Class 2		Hold Low Voltage Access Authority (LVAA)
Class 2B (previously known as Category 2) – Work on underground service conductors	Work on UG service conductors – Class 2B	<ul> <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	Work on OH service conductors – Class 2C	Hold Low Voltage Access Authority (LVAA)
Class 2D (previously known as Category 4) – Installing metering for meter types 5 to 6 and other Network Operator service equipment	Install Type 5 and 6 metering – Class 2D	Hold Low Voltage Access Authority (LVAA)
Class 2X – Non-electrically qualified	Carry out Trade Assistance (Non- Electrically Qualified) – Class 2X	• Nil
Level Three		
Class 3A – Design of OH electricity reticulation	Carry out Electrical Testing and Inspection (Overhead)	<ul> <li>Distribution substations (including low voltage ancillary equipment)</li> <li>Zone/transmission substations - personal entry</li> </ul>
Class 3B – Design of UG electricity reticulation	Carry out Electrical Testing and Inspection (Ground)	<ul> <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?

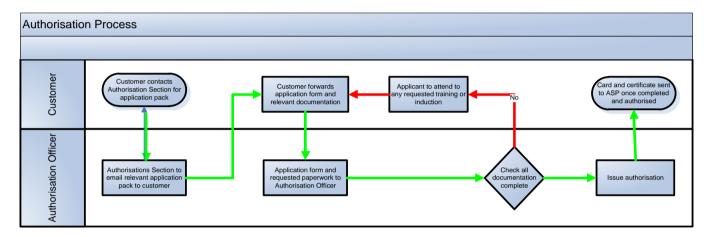
Yes, unless you are under supervision. All people wishing to work on or near the Endeavour Energy electricity network without authorised supervision will be appropriately authorised, once they have met the competency requirements that are requested for each individual function.

# 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



# 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: <a href="mailto:authorisations@endeavourenergy.com.au">authorisations@endeavourenergy.com.au</a>

# 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

# 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: <a href="http://www.aemc.gov.au/Major-Pages/Power-of-choice">http://www.aemc.gov.au/Major-Pages/Power-of-choice</a>

# 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.
  - o 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
- For Endeavour Energy Electrical Safety Rules or general electrical safety advice, please contact: electrical.safety@endeavourenergy.com.au
- For Training Delivery enquiries, please contact: <u>technical.training@endeavourenergy.com.au</u>
- For technical enquiries, please contact: <u>inspection@endeavourenergy.com.au</u>
- For NOSW app enquiries, please contact: <u>noswapp@endeavourenergy.com.au</u>

## 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



