

ELECTRICAL SAFETY AUTHORISATIONS

Authorisations Manual

Electrical Safety & Performance

November 2019



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1.0 INTRODUCTION

1.1 Purpose

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

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

1.1.1 Work 'on or near'

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

• Authorised person

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

• Instructed person

A person adequately advised by an Authorised Person or who has sufficient training and experience in the safety requirements for the work being undertaken to enable them to avoid the dangers which electricity may create.

Ordinary Person Clearance

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

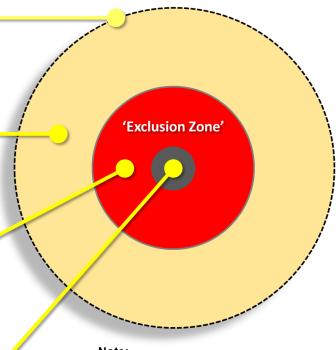
Working Near (within 3 metres of the network)

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

Working On (within Safe Approach Distance)

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

Working On (in contact with the network)

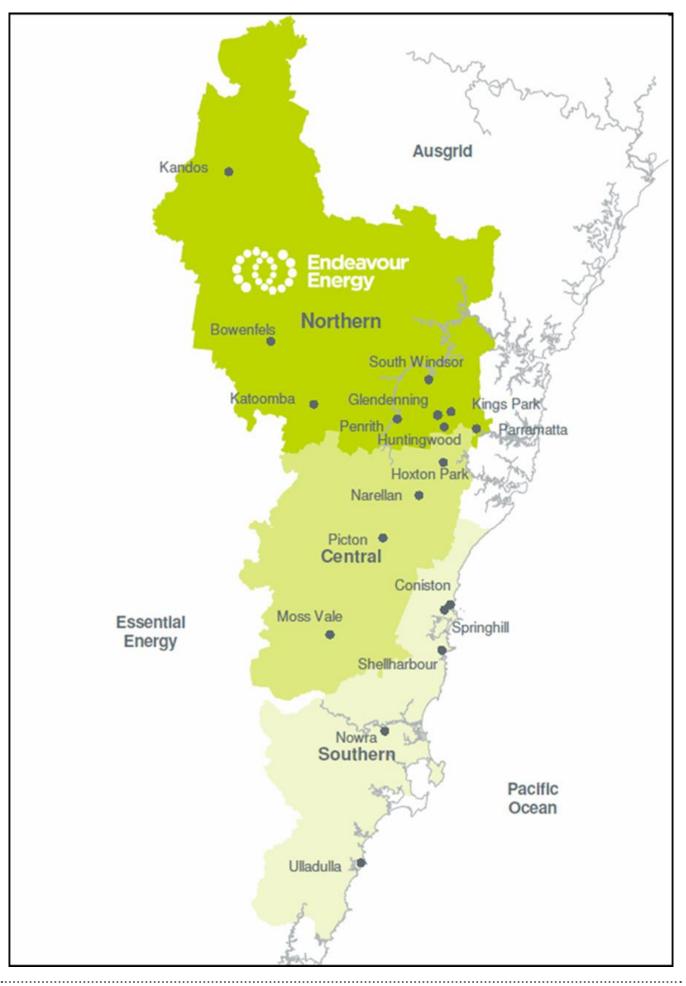


Note:

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

- a. An authorised person
- b. An instructed person
- c. Under the appropriate level of supervision of an authorised person







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.





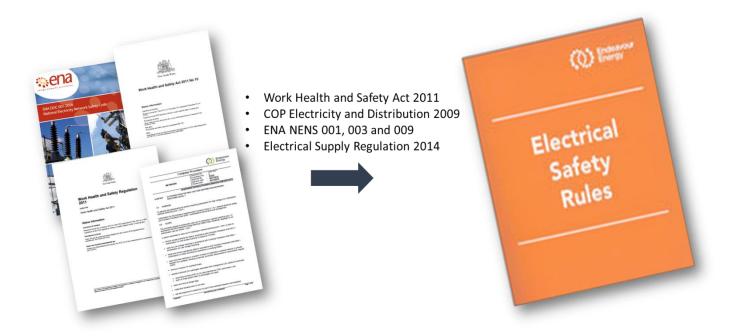
1.3 Electrical Safety Rules

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: <u>electrical.safety@endeavourenergy.com.au</u>



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: <u>https://lms.energyspace.com.au/mod/scorm/view.php?id=155353</u>

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

energy space online resources	
LOG IN Username Password	ASBESTOS SAFETY MODULE Click Here to begin the free electrical industry asbestos e- learning package. In this course you will learn about how asbestos was used in the electrical industry. You will also learn about the safety
Password Remember username LOG IN Forgotten your username or password? Cookies must be enabled in your browser ? Fome courses may allow guest access LOG IN AS A GUEST	controls that you should have in place to minimise the risk of inhaling asbestos. Please consult your local workplace authority for further information on legislated asbestos awareness training requirements in your jurisdiction. NOTE: You may need to select "login as guest" before launching the module.



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.

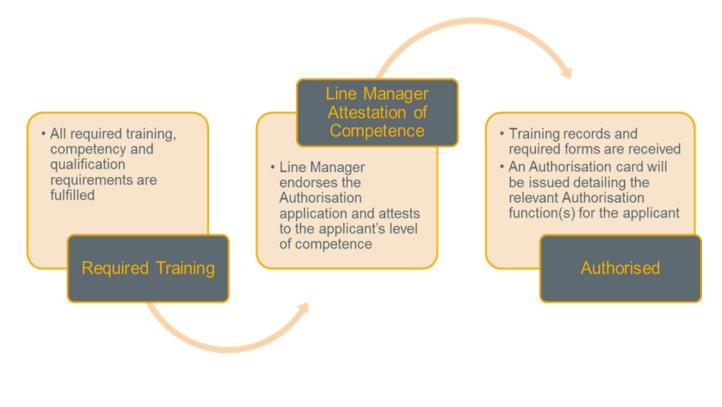
There are a range of requirements specified for each authorisation function. These generally include a qualification, certain specialised initial training courses, and a range of refresher training that needs to be completed each year.

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.

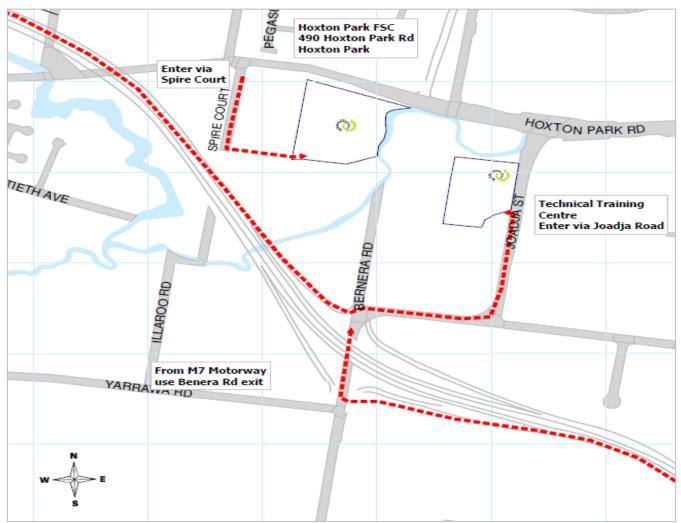
Endeavour Energy also provides specialist training courses, these courses incorporate areas where organisational context is required at a high level and particular subject matter expertise is required. It should be noted that these training courses cannot be delivered by any other provider and are offered 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 http://training.gov.au/. This training largely relates to rescue and resuscitation type requirements within the electricity supply industry under the 'UET12 - Transmission, Distribution and Rail Sector Training Package' - http://training.gov.au/. This training largely relates to rescue and resuscitation type requirements within the electricity supply industry under the 'UET12 - Transmission, Distribution and Rail Sector Training Package' - http://training.gov.au/Training/Details/UET12

3.3 Endeavour Energy Accredited Registered Training Organisations (RTOs)

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

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

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

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





RTO name		ESR Refresher	CAVC	Excavation VOC
Endeavour Energy 02 9853 7522 <u>www.endeavourenergy.com.au</u>	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 <u>www.iacsafetyservices.com.au/</u>		Accredited to deliver		Accredited to deliver
Pipeline Training Australia (02) 9679 0066 <u>www.pipelinetraining.com.au/</u>		Accredited to deliver		Accredited to deliver
TAFE – Hunter Institute 131225 www.hunter.tafensw.edu.au/pages/default .aspx		Accredited to deliver		
TAFE – (SWSI) (02) 9643 4500 <u>https://swsi.tafensw.edu.au/</u>	TAFEI SWSI South Western Sydney Institute	Accredited to deliver		
Enersafe Training (02) 8602 2000 <u>https://www.enersafe.com.au/</u>		Accredited to deliver		
NECA Training (02) 9188 4424 <u>www.necatraining.com.au</u>	DECA TRAINING national electrical and communications association	Accredited to deliver		
Essential Energy Training Services 13 23 91 <u>www.essentialenergy.com.au</u>	essential	Accredited to deliver		
Aurecon Group (08) 8919 9777 <u>https://www.aurecongroup.com/</u>	aurecon	Accredited to deliver		
Power Safety Training (formerly Workspace Training) (07) 3288 8800 <u>www.powersafetytraining.com.au</u>	Power Safety Training	Accredited to deliver	Accredited to deliver	
Interlink Training 1300 731 669 <u>www.interlinktraining.com.au</u>	InterLink Training		Accredited to deliver	
Thoughtplanters +64 9522 8711 <u>https://www.thoughtplanters.com/</u>	thought planters		Accredited to deliver	
CTC Safety 02 9979 7888 <u>http://ctcsafety.com.au/</u>	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: <u>NSW Department of Industry Supervising your apprentice or trainee</u>

5.0 ACCESSING THE NETWORK

5.1 Network Access Card

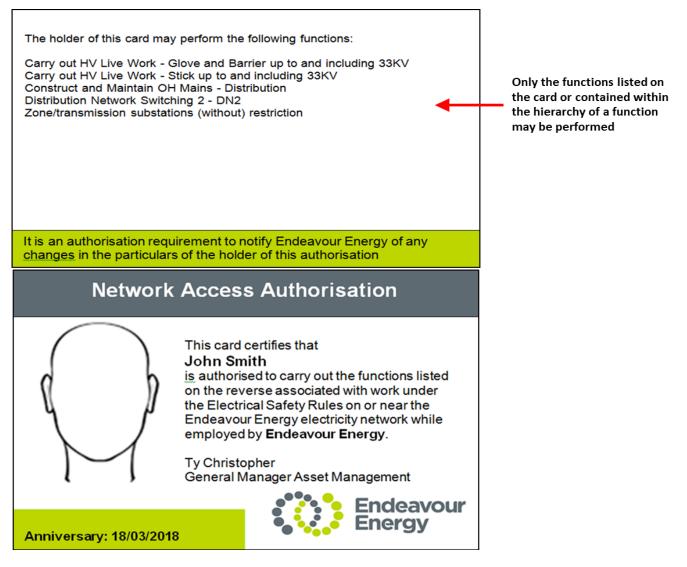
In order to provide evidence of appropriate authorisation, a network access authorisation card must be issued listing the specific functions a person is authorised to carry out.

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.



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:

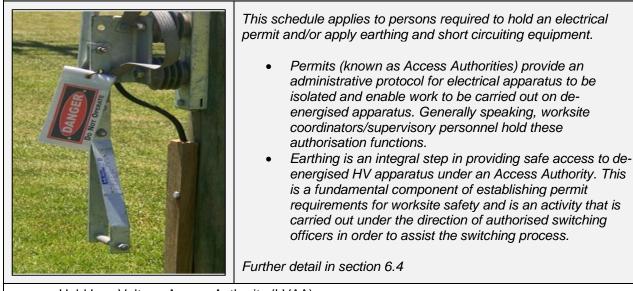
A person authorised to Construct and Maintain OH Mains – Transmission Towers will only have 'Construct and Maintain OH Mains – Transmission Towers' however; is also able to carry out the following additional functions without them specifically being displayed on the card:

- 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



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

Schedule 7 – Overhead Line and Ground Line Inspection Authorisations

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

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

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



- 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.
- <u>Observe</u> 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.
- <u>Carry out</u> 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.

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





Schedule 10 – Trade Based Authorisations



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

The streams include:

- non-trade qualified (assistant type roles)
- electrical testing and inspection (limited scope for qualified personnel carrying out minor 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 Work Authorisations

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

Low Voltage Live Line Work includes any work involving the:

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

High Voltage Live Line Work is broken into four streams:

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

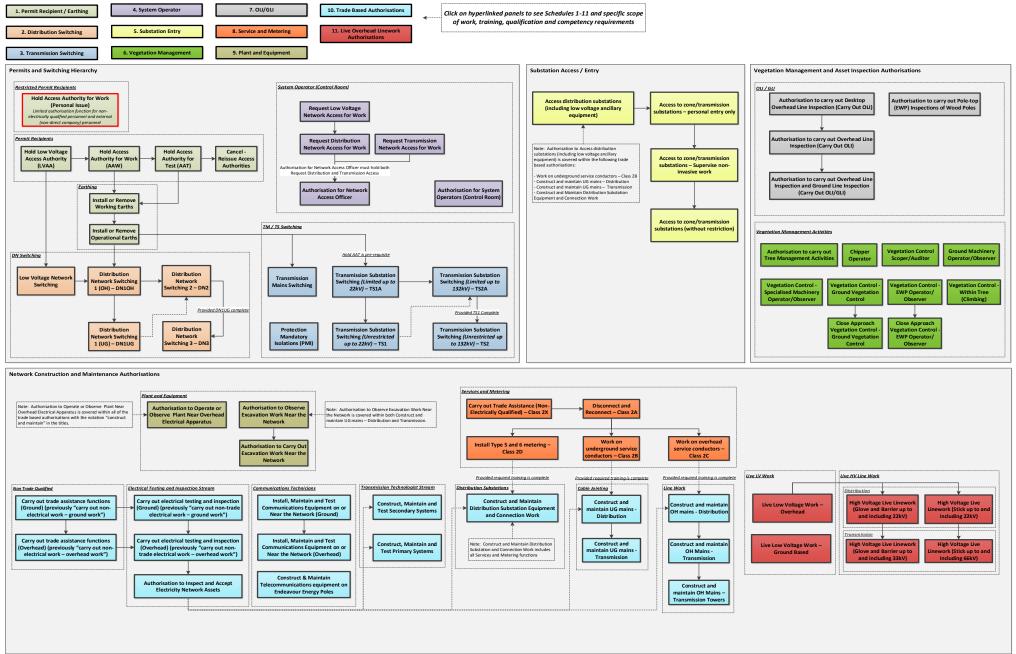




- Live Low Voltage Work Ground Based (previously "Low Voltage Live Linework")
- Live Low Voltage Work Overhead
- High Voltage Live Linework (Glove and Barrier up to and including 22kV)
- High Voltage Live Linework (Stick up to and including 22kV)
- High Voltage Live Linework (Glove and Barrier up to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



6.3 Authorisation hierarchy overview





6.4 Authorisation Schedule 1

Permit Recipient and Earthing Authorisation Hierarchy

Hold Access A	Authority for Work (Personal Issue)	
imited authorisa.	ation function for non-electrically qualified personnel and external (non-direct company) personnel	
Scope of activiti	ties covered by this authorisation:	
	y only accept a LVAA and AAW issued in person (face to face) to the individual render and Temporary Surrender an AAW	Special Condition
- Cani - Cani	tier, not covered by this authorisation function: mot accept a LVAA or AAW left onsite mot Transfer AAW	Recognition of Authorisation Functions with other Network Operators (5.4.8)
	not hold AAT equirements: Nil	Recognition for authorisation functions may be granted for authorised personnel of other Network
Pre-requisite Re - Wo		Operators where an equivalency has been determined subject to the written approval from the Manager Electrical Safety and Performance.
	g and Assessment: Access Authority for Work initial training (0001)	
Initial Training a - Elec	a Access Automotiny for Work minist transmit (UOU1) and nogoing Annual Reference Assessment: triciela Safety Aules Training (UOU1) treases and rescue (UOD9 / UETTORRFORB)	
- Card	dio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)	
	vide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF.08) sroed Abstects Awarness Course (only required on celor initial autoricitation application)	

Permit Holder

Scope of activities covered by this authorisation:		s Authority for Test (AAT)	
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hing 🗸	Install and Remove Operational Earths		

6.5 **Authorisation Schedule 2**

stribution Switching Authorisation Hierarchy		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	Reclose		
					-	0	00	-											,			
witching Non-Network Systems is not applicable and does		to	other	on OH	UG			он	UG	and Try	and Try	он	UG	ОН	UG	он	OG	AA"s and	and	to N/A		
not require authorisation (GSY0093)		Work	crews							Back OH	Back UG							folders	isolation			
von-network systems include:																		ioideis		1		
		Party	or																point			
 LV supply to Substation Voltage Transformers auxiliary 230/400 Volt station systems (fans, pumps, motor supplies, etc) 			contrac																			
 - 230/400 Volt station supply (lights, power, etc) 			1.																			
 Audio Frequency Injection Cell (AFIC) 230/400 Volt supply systems LV service and metering work beyond the connection point 			tors																			
- non-electrical sources of energy	DN10H	Yes	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES		
	DN1UG	YES		VES	YES	VES	NO	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	VES		
		NCC				Neg.		VEC		VEC		WEE.		1150		VEC						
	DN2	TES	TES	TES		TES		YES		TES		TES		TES		YES		TES	TES	YES		
	DN3	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
- Open and close switching devices on VI network supply (external treet supply to the one or to changeser indicator insity (individualisation to fore interview) (manuscuss) substances required to the open and the open a	ansmission substation up to the L	V detection and			 Prove OH conductor Commission OH equi- Operate reclosers at the System Operator Use live line cutters Switching employees Complete DN1OH FI 	rs de-energised and apply OH earth ipment. nd apply network protection suppri- to cut HV leads in accordance with &E switching	et connect Tx and UG undercrossings ing apparatus sssion settings on reclosers – enable , Division Workplace Instruction WNV	disable SEF, auto-rec			ion of	- Make and threak parallels on the OH MY reference (op to 22X) and conduct OH HV planing - Issue and inceive HV planing Agreements applicable for OH apparatus only - Lease AAW and AAY to Contra constrained and - Second AAY and AAY to Contra constrained and - Second AAY and AAY to Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained and AAY and Contra constrained and - Contra constrained AAY and the AAY and Contra constrained and - Contra constrained AAY AAY and AAY and AAY and AAY AAY AAY AAY AAY AAY AAY AAY AAY AA										
Qualification Requirements: - Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)				Cannot issue AAW o Cannot issue AAW o		switchgear, isolation points or earthi	18				Cannot operate or apply test equipment to UIG switchgear Cannot adjust protection relays/control systems Qualification Requirements:											
 Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate) 		Pre-requisite Requirements:						Cannot operate or apply text equipment to UG switchgear Cannot operate a regulator or switchgear on the same structure associated with a regulator Cannot subse or cancel an AA associated with transmission isolations or earthing							- Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate) - Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate) - Certificate III in Electrotecthology Electrician (or equivalent – EMV/SE)							
 Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE) Pre-requisite Requirements: Vork safely in the construction industry (CPCCDHS1001 – NSW white card or equivalent) 					- Cannot issue or can	cel an AA associated with transmiss	ion isolations or earthing					- Cert	ificate III in Electrotec									
- Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE) Pre-requisite Requirements: - Work safely in the construction industry (CPCCDH51001 – NSW white card or equivalent) - Authorised to hold UVAA					 Cannot issue or can Cannot parallel part 	cel an AA associated with transmiss s of the HV network, conduct HV pl		trol systems			→.	- Cert Pre-requisite Re	ificate III in Electrotec iquirements:	hnology Electric	tian (or equival	ent – EFM/ESE)					
- Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE) Pre-requize Requirements: - Work safely in the construction industry (CPCCDH51001 – NSW white card or equivalent) - Authorized to hold UXAA - Access distribution substations (including low voltage anciliary equipment) Specific Training and Assessment:					Cannot issue or can Cannot parallel part Cannot issue or rece Cannot cross refere	cel an AA associated with transmiss	ion isolations or earthing	trol systems			→ŀ	- Cert Pre-requisite Ro - Wor - DN1	ificate III in Electrotec iquirements: k safely in the constru (OH)	hnology Electric	tian (or equival	ent – EFM/ESE)					
Certificate III in Electrotechnology Electricitian (or equivalent – FMVESI) Pre-equicite Regularements: - Work safely in the construction industry (CPCCDFSID0 – HSW white card or equivalent) - Authorized to hold LNA Securit Training and Assessment: - Tow Vorke Security (Institute Training Construct ode NIL 20 or 0000).			⊢	Qualificat	 Cannot issue or can Cannot parallel part Cannot issue or rece Cannot cross reference Cannot cross reference 	cel an AA associated with transmiss s of the HV network, conduct HV pl sive HV Operating Agreements nee HV switching folders	ion isolations or earthing asing or adjust protection relays/cor	trol systems			→ .	- Cert Pre-requisite Ro - Wor - DN1 Specific Training	ificate III in Electrotec equirements: k safely in the constru (OH) g and Assessment:	hnology Electric	cian (or equival	ent – EFM/ESE – NSW white o) ard or equivale					
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- -DNL (DI) Switchers (course code 00006a) (Galget to Invel 4 manager (or higher) approval) image droging dward Bertoler Accessore -Betrical 2 sharp halos Trailing (UDI) -Betrical 2 sharp halos Trailing (UDI) -Cardo humans (Hesting Cardon 2 and 2
- ary vertext or protect compared production at back ten 50kr. relations (bit he DNI (c)) investigations and the direct approximant of an authorized weitcher of at least DNI (DH) fore-compared prot (C) Progression Workbook (unlight to endoursement from the Field Operations Management Team) amont
- essment: Competency assessment by a Cert IV Assessor authorised at or above the level being assessed 1 final assessment by a cert IV Assessor authorised by the company's Training Delivery Branch within 12 months on completion of the initial DNI (DNI) course Condication net benefaced at level to unching activities (La assessment with the disconnection or reconnection, coordinating senthing activities or proving de-emergined and applying earthing apparatus with a least 5 occasions at the person responsible for the issuing of an AAJ during the previous 12 months Safety and the senting balance to another month and the in ansager and the field Operation Assessment Team. The Safety and the senting balance to another month and the in ansager and the field Operation Assessment Team. These Safety and the sension appointed by the company's Training Delivery Branch.

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	previous 12 months by an Assessor appointed by the company's Training Delivery Branch.
	- Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during th
	prevides 12 months relating to DV2 switching (on Win also satisfy the manuferance of competency to DV10H as it is nerarchically subject to endorsement from both the line management and the Field Operations Management Team): or
	activities or proving de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN2 Switching (this will also satisfy the maintenance of competency for DN1DH as it is hierarchically superior) (subject to
	- Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching
On	ngoing Maintenance of Competency:
	 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN2 course
	 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
Fin	nal Assessment:
	 Complete DN2 Progression Workbook (subject to endorsement from the Field Operations Management Team)

Provided DN1UG Complete

Dis	ribution Network Switching 1 (UG) – DN1UG
	Scope of activities covered by this authorisation:
	- Carry out the activities of a person authorised to carry out DN1(OH)
	- Operate UG distribution switches on a section of radial feed (natural and created spur) up to and including 22kV following a written D&R or under the instruction of a System Operator to issue an
	AAW to own work party only
	Prove UG cables de-energised, apply UG earthing apparatus and commission OH equipment only
	Scope of activities not covered by this authorisation function:
	- No unplanned switching, fault finding or 'try back' switching on the UG network
	- Cannot operate or apply testing/earthing equipment to transmission equipment
	- Cannot issue AAW or AAT to other work crews including contractors
	- Cannot issue AAT on UG to any group
	- Cannot commission UG equipment
	 Cannot operate a regulator or switchgear on the same structure associated with a regulator
	- Cannot issue or cancel an AA associated with transmission isolations or earthing
	- Cannot parallel parts of the HV network, conduct HV phasing or adjust protection relays/control systems
	 Cannot issue or receive HV Operating Agreements or cross reference HV AA's
	Qualification Requirements:
	- Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)
	- Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate)
	- Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE) Pre-reauliste Requirements:
	- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - DN1 (OH)
	Access distribution substations (including low voltage ancillary equipment)
	- Authorised to access to zone/transmission substations (without restriction)
	Specific Training and Assessment: - DNI (UG) Switchers (course code 0006b) (Subject to level 4 manager (or higher) approval)
	Initial Training and ongoing Annual Refresther Assessment: - Electrical Safety Rules Training (U011)
	Electrical safety Roles framing (ODE1) VETDRRF06B)
	- Cardio Pulmary Resuscitation (CPR) (U010 / HLTAID001)
	Provide first aid in an ESI environment (internal course code 8 U038: external course code UETTDRRF108)
	Pole top rescue training (internal course code U003: external course code UETTDRRF028)
	- Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
	- Approved Asbestos Awareness Course (only required once for initial authorisation application)
	Probationary Period:
	- Required to undertake at least ten D&Rs relating to the DN1 (UG) switching tasks under the direct supervision of an authorised switcher of at least DN1 (UG) level.
	 Complete DN1 (UG) Progression Workbook (subject to endorsement from the Field Operations Management Team).
	Final Assessment:
	 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
	- 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial DN1 (UG) course
	Ongoing Maintenance of Competency:
	- Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying
	earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to DN1 (UG) switching (this will also satisfy the maintenance
	of competency for DN1OH as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team); or
	- Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous 12 months by an Assessor
	appointed by the company's Training Delivery Branch.

Distribution Network Switching 3 – DN3

Scope of activities covered by this authorisation:
- Carry out the activities of a person authorised to carry out DN2UG and DN2
- Carry out additional UG switching tasks
 Make and break parallels on the UG network (up to 22kv) and conduct UG HV phasing
 Issue and receive HV Operating Agreements applicable for UG apparatus
- Cross reference HV AA's on the UG
 Issue AAW and AAT to Contractors and ASPs
Complete DN3 F&E switching
Commission UG distribution equipment
 Verify the configuration of zone substation distribution feeders (ie: position of switches and/or earthing devices) associated with a D&R for the purpose of work on the distribution network (this type)
of activity must be carried out in conjunction between a DN3 switcher and a TS1 switcher or individual who holds both authorisation levels)
Scope of activities not covered by this authorisation function:
Cannot issue or cancel an AA for the purpose of work on the transmission network
- Cannot operate or apply testing/earthing equipment to zone substation equipment
- Cannot adjust protection relays/control systems
Qualification Requirements:
- Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)
Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate)
Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE)
Pre-requisite Requirements:
Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- DN1 (UG)
- DN2 (00)
- Access distribution substations (including low voltage ancillary equipment)
Specific Training and Assessment:
- DNS Switchers (course; course code 0010) (Subject to level 4 manager (or higher) approval)
Initial Training and onesing Annual Refresher Assessment:
International designed with the statements (Designed and the statements) (Designed and the statements)
- LiteChan Janety Indiana (Janety Court) - LV release and rescue (UOOS) / UETTRRF06B)
- Cardio Pulmary Resuscitation (CRR) (U010 / HTAID001)
Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)
Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
Approved Asbestos Awareness Course (only required once for initial authorisation application)
Probationary Period:
 Required to undertake at least ten D&Rs relating to the DN3 switching tasks under the direct supervision of an authorised switcher of at least DN3 level.
Complete DN3 Progression Workbook (subject to endorsement from the Field Operations Management Team)
Final Assessment:
2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
- 2 compression pressurements or an Assessor appointed by the company's Training Delivery Pranch within 12 months on completion of the initial DN3 course
Ongoing thatteaned to by an extension appointed by the company's maning between y drawed whith the method of compared of the method of compared of the method of the metho
- Condicate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised and applying
 Candidate must have evidence of an easist to switching activities (such as assisting with the discommendation or recommendation), and the such as assisting approximate and appro
earoning apparatos with at teast 5 occasions as the person responsible for the issuing of an XeV during the previous 12 months relating to bits writering (the win and satisfy the mannenance of competency for DN2 and DN1UG as it is hierarchically superior) (subject to endorsement from both the line manager and the Field Operations Management Team); or
- Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergoone one assessment during the previous 12 months by an Assessor
appointed by the company's Training Delivery Branch.



6.6 **Authorisation Schedule 3**

Transmission Switching Authorisation Hierarchy

	Carry	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 o
	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	Transmissi
	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)												
1	NO	YES	NO	YES	YES	YES	NO	NO	NO	NO	YES	NO	NO	NO	YES	NO	YES	NO	NO	YES	YES	YES
1A	YES	YES	NO	YES	NO	NO	YES	YES	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
2A	YES	YES	NO	YES	NO	NO	YES	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
1	YES	YES	YES	YES	NO	NO	YES	YES	NO	NO	YES	Yes	YES	YES	NO	YES	NO	YES	YES	YES	NO	YES
2	YES	YES	YES	YES	NO	NO	YES	YES	YES	NO	YES	Yes	YES	YES	NO	YES	NO	YES	YES	YES	NO	YES

Transmission Mains Switching

Stope of artificits covered by the subcreation: Opented provides field in the subcreation of a subcreation of the industry of the ind	Scope of activities covered by this authorisation: Scope of activities covered by this authorisation and activities and activitities and activities and activities and activities and activities
Any end of the and the AMV of AT to other work crews including contractors - Chine electrics and the AMV of AT to other work crews including contractors - Chine operate any equipment or the supply of the line isolated to the instructions - Chine of such AMV or AAT on distribution network other than for the purpose of applying earths on the transmission network for clearance on joint used pols at and of an encloted AWV	Cannot provide access to cable chambers (prove de energised) Cannot scat sate becamissioning efforter commissioning efforter commissioning efforter commissioning efforter commissioning efforter commissioning efforter commissioning efforter efforter explorement Cannot carry out aut Hinding involving the operation of equipment and tryback' Cannot issue Sate Core setterense sublicing folders:
Qualification Requirements: - Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate) - Certificate III In ESI Distribution Cable Jointing (or equivalent including Craft Certificate) - Certificate III In Recruitendenogy Recruitagi or equivalent - FM/(STI)	Qualification Requirements: Conflicte III in ISS Distribution Overhead (or equivalent including Craft Certificate) Certificate III in ISS Distribution Cable Jointing (or equivalent including Craft Certificate) Certificate III In Exercision Conflicted (or equivalent including Craft Certificate) Certificate III In Exercision Conflicted (or equivalent including Craft Certificate) Certificate III In Exercision Conflicted (or equivalent including Craft Certificate) Certificate IIII Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Craft Certificate) Certificate III Exercision Conflicted (or equivalent including Certificate) Certifica
Pre-regulate Regularements: - Vertextering targets in the construction industry (CPECCHSID01 – NSW white card or equivalent) - Authorized to Hold AAW - ONLINE theory and practical (is satisfy underginning inovietidge, not for the purpose of authorization)	Pre-requirate Requirements: Work stafely in the construction industry (CPCCPHS1001 – NSW white card or equivalent) - Authorized to biold AAW and AAT - Authorized to biold AAW and AAT - Authorized to biold and and and and and and and and and an
Authorised to enter to zondy/zonamission substationic (without restriction) Specific Training and Assessment: Trainmission Mains Systemating Intel Institute (course code 0011) (Subject to level 4 manager (or higher) approval) Technologic Systematics (Subject Technologic Systematics) Sector 1014 (Subject Technologic Systematics) Sector 1014 (Subject Technologic Systematics)	 Specific Training and Auscissment: Specif Training and Auscissment: Specif Training and
- LV release and rescue (U007 / UTTRHR706) - Curdio Munoany Resultational (UR08) (UTTRHR706) - Curdio Munoany Resultational (UR08) (U016) (E140001) - Provide first all in a 15 environment (Bernard Locate Local I U018, esternal course code (UTT0887108) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108)) - Polarity, Phase segences and environment (Bernard Locate Local I U018, esternal course code (UTT0887108))	- Authorised Protection Isolation Course (Internal Course code (ITETI20) [Lobject to level 4 manager (or higher) approval) intol Transing and reginglic Automatic Alterbark Aussessment internal Transit Alterbark Aussessment - Viriales and rescal (IXOR9 / VITTADPEGA) - Cardo Pulmonary Resolution (IXOR / VITADDD1)
 Approved Abatests Awareness Course (only required once for initial authorisation application) Probationary Period: Required to underake at lisast ten D&Bs containing TMS stretching, under the direct supervision of a person authorised to carry out at least TM Switching Complete TM Pergression Windook (haplet to endorsement from the field Genzations Khanagement Team) 	- Provide Trist ad in an SE environment (Internal course code SU USB); external course code ULTT0887210) - Prote typ recess training (Internal Course code) ULTT0887210; - Publicity, Publica expenses ad integrity lests; (Internal Course code ULTT0887211) - Publicity, Publica expenses ad integrity lests; (Internal Course code ULTT0887210; - Publicity, Publica expenses Course (only expense) course code ULTT0887210; - Proteinty, Publica expenses Course (only expense) course code ULTT0887210; - Proteinty, Public expenses Course (only expense) course (only expense) course (only expense) - Proteinty, Public expenses Course (only expense) course (only expense) course (only expense) - Proteinty, Public expenses Course (only expense) course (only expense) course (only expense) - Proteinty, Public expenses Course (only expense) course (only expense) - Proteinty, Public expenses Course (only expense) course (only expense) - Proteinty, Public expenses Course (only expense) course (only expense) - Proteinty, Public expenses - Public expenses
Final Assessment: - 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed - 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TM course	Focusion of an authorised switcher of at least to D&Rs relating to TSIA switching tasks under the direct supervision of an authorised switcher of at least TSIA level. Complete TSIA Progression Workbook (subject to endorsement from the Feld Operations Management Team) Final Accessment:
 Ongoing Maintenance of Competency: - Required to undertake at least 10 DBRs containing TMS Switching during the previous 12 months (subject to endorsement from both the line manager and the Field Operations Management Tam); or - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Tam, have undergone one assessment during 	2 competency assessments by 2 cm1V Accessor authorized at an above the level being assessed 1 final assessment approaches by the company's Training Delivery Branch within 12 months on completion of the Initial TS1 course Organity Maintenance of Competency. Candidate must have evidence of a task 10 within the astrollevel being assessed to a statistict with the accompetition, coordinatine within a strivel site of the astrollevel being assessed as a strive and the initial training to the astrollevel being assessed as a strivel with the activities of an and the astrollevel being assessed as a strivel with the activities of the astrollevel being assessed as a strivel with the activities of an and the activities of an and the activities of the activities of the astrollevel being assessed as a strivel with the activities of an and the activities of the activities of an and the activities of a strivel with the activities of the activities of a strivel with the activities of a strivel with the activities of an activities of the activities of the activities of a strivel with the activities of activities of activities and the activities of acti
the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.	 Candidate must have evidence of at loast 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-engised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to TSIA with the subscription of the subscription of the subscription of the subscription of an AA) during the previous 12 months relating to TSIA

smission Mains Switching	Transmission Substation Switching (Limited up to 22kV) – TS1A	Transmission Substation Switching (Limited up to 132kV) – TS2A
scope of activities covered by this authorisation:	Scope of activities covered by this authorisation:	Scope of activities covered by this authorization:
 Operate Overhead transmission field switches and outdoor line isolators within substations up to including 132kV following a written D&R or under 	 Operate substation equipment (including VTs and auxiliary equipment) up to and including 22KV following a written D&R or under instruction from the System Operator 	 Carry out the duties of a person authorised to carry out TSIA Switching
instruction of a System Operator	to issue an AAW or AAT to own work party	Operate substation equipment (including VTs and auxiliary equipment) up to and including 132KV following a written D&R to issue an AAW or AAT to own work party
Check open outdoor circuit breakers	 Operate field reclosers and regulators (including by-passing), prove de-energised and apply earthing apparatus, and issue AAW or AAT Undertake PMI 	 Scope of activities not covered by this authorisation function:
- Isolate VT's	Undertake PMI Ventry distribution isolation and earthing required for substation work are complete	- TS2A switchers can not issue AAW or AAT to other work crews including contractors - Cannot issue/cancel AAW or AAT for the purpose for work on the distribution equipment
- Operate 33kV field reclosers	vering tain booten down and ear using required for souscapion work are compare Scope of activities not covered by this authorization function:	Cannot issue/cancel AAW or AAI for the purpose for work on the distribution equipment Cannot operate or earth the distribution network (effect OH or UG including audiary bars)
 Issue an AAW or AAT to own work party only for work on the transmission OH mains (including distribution OH mains for the purpose of clearance not work) Prove de-energised and apply overhead earthing apparatus including outdoor line earth switchers 	Stope of incomentation of the indext and the i	Cannot provide access to cable chambers (prove de-energised) Cannot provide access to cable chambers (prove e-energised)
 Prove de-energised and appry overnead eartning apparatus including outdoor line earth switchers Commission OH transmission equipment. Issue or Receive Operating Agreements on overhead transmission equipment only 	 Cannot issue/cancel AAW or AAT for the purpose for work on the distribution equipment 	 Cannot act as the commissioning officer for commissioning new equipment
 - Commission OH transmission equipment, issue of Necewo Operating Agreements on overnead transmission equipment only scope of activities not covered by this authorization function: 	 Cannot operate or earth the distribution network (either OH or UG including auxiliary bars) 	- Cannot carry out fault finding involving the operation of equipment and 'tryback'
cope of activities not covered by this authorisation function: - TH switcher can not issue AAW or AAT to other work crews including contractors	 Cannot provide access to cable chambers (prove de-energised) 	Cannot issue DA's or Cross reference switching folders
Christericar can be ssee sown of some some work constrained in the solution in the substations	 Cannot act as the commissioning officer for commissioning new equipment 	Qualification Requirements:
 - Cannot issue Adv or AAT on distribution network other than for the purpose of applying earths on the transmission network for clearance on joint used 	 Cannot carry out fault finding involving the operation of equipment and 'tryback' 	 Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)
 Cambridge of the other intervention of the purpose of applying earch of the transmission network of chamiles of part data poles as part of an erection AAW 	 Cannot issue OA's or Cross reference switching folders 	Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate)
Dualification Requirements:	Qualification Requirements:	 Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE)
- Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)	Certificate III in ESI Distribution Overhead (or equivalent including Craft Certificate)	 Pre-requisite Requirements: - Work safet in the construction industry (CPCCDHS1001 – NSW white card or equivalent)
Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate)	Certificate III in ESI Distribution Cable Jointing (or equivalent including Craft Certificate) Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE)	Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) TS1A
 Certificate III in Electrotechnology Electrician (or equivalent – EFM/ESE) 	- Lettincate III in Electrotechnology Electrician (or equivalent – EFM/ESE) Pro-requisite Requirements:	TSIA Specific Training and Assessment:
Pre-requisite Requirements:	Pre-tequate requirements. - Work safely in the construction industry (CPCCDHS1001 – NSW white card or equivalent)	 specific (raining and assessment: - transmission Substation Switching Level 2 (TS 2) initial training (course code 0013) (Subject to level 4 manager (or higher) approval)
 Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) 	 Worksately in the construction industry (PCCOFS1001 = NSW write card of equivalent) Autorised to hold AAW and AAT 	 Initial Training and organization substation switching tares 4 (15.2) initial training (course code 0013) (subject to even 4 manager (or nighte) approval) Initial Training and organization and therefore Assessment:
- Authorised to Hold AAW	- Authorised to access to zone/transmission substations (without restriction)	India I raining and calgorithm extension excessioner. Electrical Safety Rules Training (UDI)
 DN1OH theory and practical (to satisfy underpinning knowledge, not for the purpose of authorisation) 	Specific Training and Assessment:	UV release and rescue (U009 / UETTDRRF06B)
Authorised to enter to zone/transmission substations (without restriction)	- DN1 (DH) Switchers (course code 0006) (Theory Component only) (Subject to level 4 manager (or higher) approval)	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
Specific Training and Assessment: - Transmission Mains Switching initial training (course code 0011) (Subject to level 4 manager (or higher) approval)	- DNZ Switchers (course code 0007) (Theory Component only) (Subject to level 4 manager (or higher) approval)	Provide first all in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)
	- DN3 Switchers (course code 0010) (Theory Component only) (Subject to level 4 manager (or higher) approval)	Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
Initial Training and ongoing Annual Refresher Assessment:	 Transmission Substation Switching Level 1 (TS 1) initial training (course code 0012) (Subject to level 4 manager (or higher) approval) 	Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETDRRF11A)
Electrical Safety Rules Training (UD11) LV release and rescue (U009 / UETTDRRF068)	 Authorised Protection Isolation Course (internal course code ITE102) (Subject to level 4 manager (or higher) approval) 	 Approved Asbestos Awareness Course (only required once for initial authorisation application)
- LV release and rescue (0009 / UE I DKR/DBB) - Cardio Pulmonary Resuscitation (CPR) (0010 / HLTAID001)	 Initial Training and ongoing Annual Refresher Assessment: 	Probationary Period:
 - Lardio Fuimonary Resuscitation (CPK) (UULU / HL AUDUL) - Provide first allo in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) 	Electrical Safety Rules Training (U011)	 Required to undertake at least ten D&Rs relating to TS2A switching tasks under the direct supervision of an authorised switcher of at least TS2A level.
Provide instance many and estimation internal course code a close a close a close activity internal course code (Correctional Course code (Correctional Course code (Correctional Course code (Correctional Course))	- LV release and rescue (U009 / UETTDRRF06B)	 Complete TSZA Progression Workbook (subject to endorsement from the Field Operations Management Team)
Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)	Final Assessment:
 Approved Asbestos Awareness Course (only required once for initial authorisation application) 	Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)	 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed
Probationary Period:	Pole top rescue training (internal course code UO03; external course ede UETTORRF02B)	 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TS2 course
- Required to undertake at least ten D&Rs containing TM Switching, under the direct supervision of a person authorised to carry out at least TM Switching	 Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A) 	Ongoing Maintenance of Competency:
 Complete TM Progression Workbook (subject to endorsement from the Field Operations Management Team) 	Approved Asbestos Awareness Course (only required once for initial authorisation application) Probatinary Period:	 Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving de-energised at
Final Assessment:	 Probationary Period: Required to undertake at least ten D&Rs relating to TS1A switching tasks under the direct supervision of an authorised switcher of at least TS1A level. 	applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to TSLA switching (this will also satisfy the maintenance of competency for TSLA (not TSL) as it is hierarchically superior) (subject to endorsement from both the line heraid Operations Management Team); or
 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed 	Complete TSIA Procession Workbook (subject to endorsement from the Field Operations Management Tam)	• Subject to level 4 manager (or history approx) account of history approx) googlect or observement ment both the manager and the red Operations wanagement team; or • Subject to level 4 manager (or history approx) and endorsement from the Field Operations Management Team; history and the sub- stantiant of the subject of the subje
- 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TM course	Final Assessment: Final Assessment:	
Dogoing Maintenance of Competency:	 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed 	Assessor appointed by the company's Training Delivery Branch.
 Required to undertake at least 10 D&Rs containing TM Switching during the previous 12 months (subject to endorsement from both the line manager and 	 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TS1 course 	
the Field Operations Management Team); or - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during	Ongoing Maintenance of Competency:	
	 Candidate must have evidence of at least 10 switching activities (such as assisting with the disconnection or reconnection, coordinating switching activities or proving 	
the previous 12 months by an Acaesor appointed by the company's Training Delivery Branch.	de-energies and applying earting apparatus with a fails 25 socialions as the perior responsible for the issuing of an AJA during the privious 12 months relating to TSLA switching (subject or deconsent fit from both the in manager and the FRG deparations Management Yam); or - Subject to level 4 manager (or highed approval and endocrament from the Field Operations Management Tam, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.	TS1 must be completed
the previous 12 months by an Assessor appointed by the company's Training Delivery Branch.	de-energies and applying earting apparatus with at kest 5 occusions as the perior responsible for the issuing of an AJQ during the previous 12 months relating to TSIA switching (subject need oracinement from both the line manager and the Field Operations Management Train); - Subject to level 4 manager (or higher) approval and endorsement from the Field Operations Management Train, have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch	TS1 must be completed
the previous 12 months by an Alexanor appointed by the company's Training Delivery Branch.	de-energised and applying earthing apparatus with at least 5 occasions as the person responsible for the issuing of an AA) during the previous 12 months relating to TSLA switching (subject to endorsement from both the line manager and the Field Operations Management Team); or - Subject to Veid 4 manager (or higher) approval and endorsement from the Field Operations Management Team, have undergone one assessment during the previous	Transmission Substation Switching (Unrestricted up to 132kV) – TS2
ection Mandatory Isolations (PMI)	de-energiead and applying earting apparatus with at least 5 accusions as the perior regionable for the issuing of an AdJ during the previous 12 months relating to TSIA issuing tables of accusioners from this within a manager and the relating tables of the discussion of the discuss	Transmission Substation Switching (Unrestricted up to 132kV) – TS2
ection Mandatory Isolations (PMI)	de-energiead and applying earting apparatus with at least 5 accusions as the perior regionable for the issuing of an AdJ during the previous 12 months relating to TSIA issuing tables of accusioners from this within a manager and the relating tables of the discussion of the discuss	Transmission Substation Switching (Unrestricted up to 132kV) – TS2 . Some of activities covered by the authoration:
ection Mandatory Isolations (PMI) Song of antificial convex by this automatication - Heating Network contain geneticate an engined and undertails protection mandatory isolations	de-energies and applying earting apparatus with at least 5 accusions as the perior responsible for the issuing of an AJQ during the previous 12 months relating to TSIA - subject to level 4 manager (or higher) approval and endorsement from the Field Querations Management Team; or - subject to level 4 manager (or higher) approval and endorsement from the Field Querations Management Team; how undergone one assessment during the previous - 2 months by an Assessor appointed by the company's Training Delivery trans. Transmission Substation Swittching (Unrestricted up to 22kV) – TS1	Transmission Substation Switching (Unrestricted up to 132kV) – TS2 Scope of advantanciation Substation extension (and the advantanciation Substation advantanciation Substation advantanciation Substation (advantanciation Substation Substation (advantanciation Substation Sub
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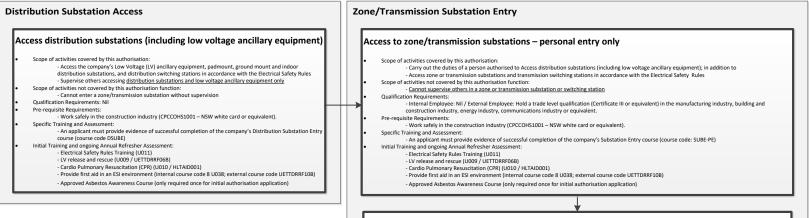
6.7 Authorisation Schedule 4

System Operator Authorisation

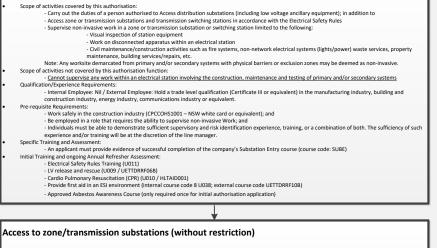
Au	thorisation for System Operators (Control Room)
•	Scope of activities covered by this authorisation:
	 Operate an Area Control Desk within the Control Room; Use Supervisory Control and Data Acquisition (SCADA) and associated computerised equipment systems.
	Qualification Requirements:
	- An electrical gualification (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 rd party
	references from a previous employer/supervisor, etc.



6.8 Authorisation Schedule 5



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

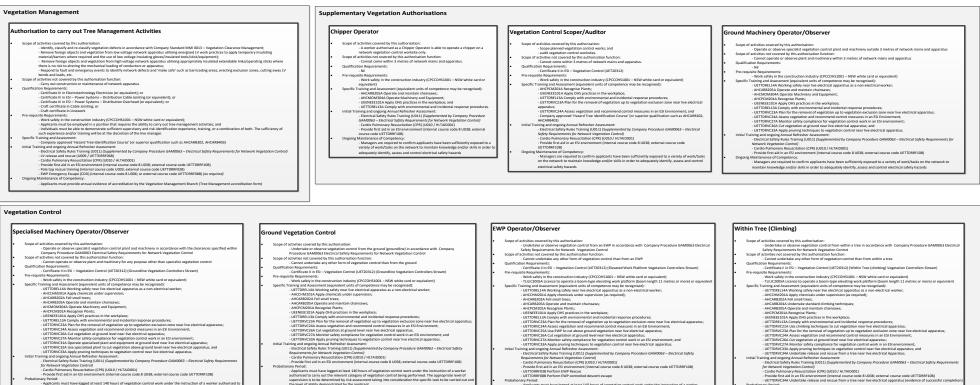


Scope of activities covered by this authorisation - Carry out the duries of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to - Access and supervise any work activity in zone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rules Qualification/Experience Requirements - An Electrical gualification (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 U038: external course code UETTDRRF10B) - Approved Asbestos Awareness Course (only required once for initial authorisation application)



6.9 Authorisation Schedule 6

Vegetation Authorisation Hierarchy



- Provide first aid in an ESI environment (internal course code 8 U038; external cou

- any remot: A applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by rick assessment taking into consideration the specific task to be carried out and the level of ability monstrated by the applicant.
- onfirm applicants have been sufficiently exposed to a variety of work/tasks on maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards

ary renuo: A Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to determined by risk assessment taking into consideration the specific task to be carried out the level of ability demonstrated by the applicant. Ongoing M

- the leven of a utility deministrated by the applicant. Haintenance of Competency: Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledes and/or skills in order to adequately identify, assess and control electrical safet hazards

Use a non-tice is a non-complexity of the second authorized to carry out the relevant category of vegatation control being performed. The appropriate level of separation is to be determined by risk assessment taking into consideration the specific task to be carried to level of ability demonstrated by the applicant. Manuferance of complexity.

- 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

- or retervoir vegetoton (.ontrol) Cardio Pulmonary Resuscitation (CPR) (JUDIO / HLTAIDODI) Provide First aid in an ESI environment (Internal course code 8 UD38; external course code UETTDRRF108) UETTDRVCI34. Understais release and rescue from a tree near live electrical apparatus (evidence of success
- nany vennoi: Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker author carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
- Ongoing Maintenance of Competency: Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on th 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 controllers
ESI - tation Units	Apply Occupational Health Safety regulations, codes and practices in the workplace	UEENEEE101A	~	~	~
e II in ESI - Vegetation Core Units	Comply with sustainability, environmental and incidental response policies and procedures	UETTDREL13A	~	~	~
e II in I Veget Core I	Working safely near live electrical apparatus as a non-electrical worker	UETTDREL14A	~	~	~
Certificate I Powerline V Control – C	Operate and maintain chainsaws	AHCARB205A	~	~	~
artif ontr	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	UETTDRVC23A	✓	~	✓
080	Monitor safety compliance of vegetation control work in an ESI environment	UETTDRVC27A	~	~	~
e e	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	TLILIC2005A		~	
Powerline Elective	Fell Small Trees	AHCARB202A	~		
Powerline - Elective	Apply chemicals under supervision	AHCCHM201A	~		
	Undertake standard climbing techniques	AHCARB204A			~
in ESI – Control Units	Use climbing techniques to cut vegetation above ground near live electrical apparatus	UETTDRVC21A			~
e li	Use elevated platform to cut vegetation above ground level near live electrical apparatus	UETTDRVC25A		~	
tati	Cut vegetation at ground level near live electrical apparatus	UETTDRVC26A	~		
Certificate II Vegetation	Apply pruning techniques to vegetation control near live electrical apparatus	UETTDRVC33A	~	~	 ✓
^ی ک	Undertake release and rescue from a tree near live electrical apparatus	UETTDRVC34A			~

Close Approach Vegetation Control (CAVC)

Close Approach Vegetation Control - Ground Vegetation Control

Scope of activities covered by this authorisation

- Scope of arkitetises overed by this stathetisation: Budyrates or downer do see supported vegetacion control from the ground (groundline) in accordance with Company Procedure GAM0063 Electrical Scope of arkitetises not covered by this stathetisation function: Cannot unarticle and youth for one doce approach vegetation control than from the ground
- on Requirements: Certificate II in ESI Vegetation Control (UET20312) (Groundline Vegetation Controllers Stream)
- Pro-roy The required Regularized Exponential Regulation Restrict COSTINGS - NOV address and a sequence of the equivalent) and - Hold as a rest authorization for hoggestation CostING - (and Wegetstation CostING - (and Section CostING)) - - Congoing algored Close Approach Vegetstation CostING - (and Wegetstation CostING - (and Section CostING)) - - Congoing algored Close Approach Vegetstation CostING - (CANC) CostING - - Congoing algored Close Approach Vegetstation CostING - (CANC) CostING - Intel CostING - CostING - - CostING - University - CostING - - CostING - University - CostING - - CostING - University - - CostING - - CostING - University - - CostING - - CostING

- adura GAMOOE2 Electrical Safety Rea ovide first aid in an ESI enviror CPR) (U010 / HLTAID001) ment (internal course code 8 U038; external course code UETTDRRF10B)
- must have logged at least 140 hours of close approach vegetation control work under the instruction of a worker auth replevant 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.
- maintematic of Competency: Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards; and Company approved CAVC refresher

rary Period: - Applicates must have logged at least 140 hours of close approach vegetation control work under the instruction of a worker authorised to carry out the relevant category of vegetation control being performed. The appropriate level of supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicated by the applicates. Maintenance of Competency: Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain kno skills in order to adequately identity, assess and control electrical safety hazards; and

Very staffy in the construction industry (ECO2014) EVEN whether care of expandent(); "TULE/DOA Licence to operate a boom space identity work higher than there are more) or Equivalent(); "TULE/DOA Licence to operate a boom space identity work higher than there are more) or Equivalent(; and there are an area of the there are a second or any area of the there are a second or equivalent); and any advances of the there are a second or any area of the there are a second or equivalent (); and any advances of the there are a second or any area of the there are a second or equivalent (); and any advances of the there are a second or any area of the there are a second or equivalent (); and any advances of the there are a second or any area of the there are a second or equivalent (); and any advances of the there are a second or any area of the there are a second or equivalent (); and any advances of the there are a second or any advances of the there are a second or any advances of the there are a second or a second or advance of the there are a second or advance of the there are a second or advances of the there are a second or advance of t

Scope of activities covered by this authorisation: - Undertaile or observe close approach segretation control from an EWP in accordance with Company Procedure GAM0063 Electrical Safety Requirement for Network Vigetation Canton Scope of activities not covered by this authorisation function: - ...cannot cubrancia any other from of close approach vegetation control than from an EWP

- Company approved CAVC refresher

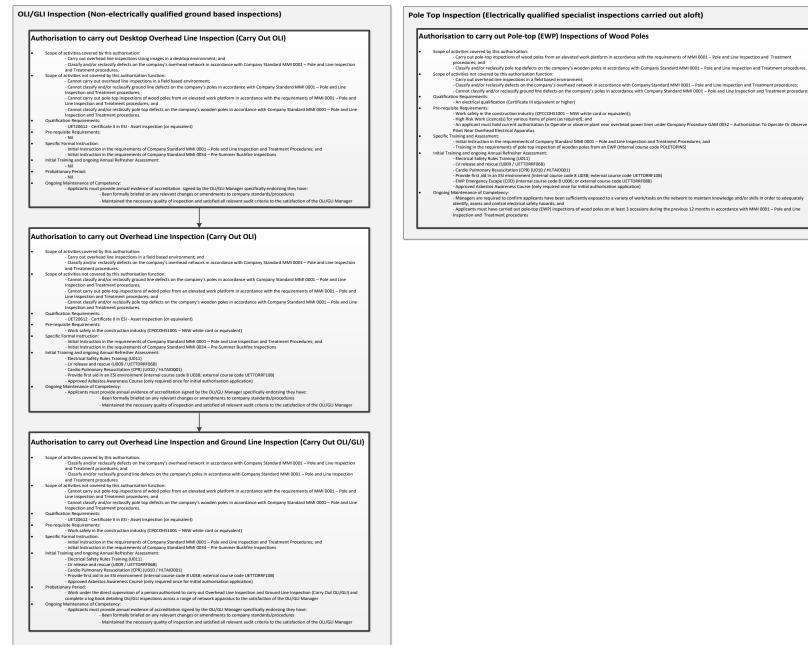
Close Approach Vegetation Control - EWP Operator/Observer

Specific

Qualification Requirements: - Certificate II in ESI – Vegetation Control (UET20312) (Elevated Work Platform Vegetation Control

Endeavour Energy

6.10 Authorisation Schedule 7



6.11 Authorisation Schedule 8

Service and Metering Authorisation Hierarchy

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Scope & activities covered by the substration: - Perform form form of the provide work performed by detectrical trades apprentices covered by a training contract that may be required to work on o under direct and constant supervision of an appropriately authorized person, - Carry out own formed by person regardly be attecommunications network of generation on telecommunications assets attached to electricity ne - Perform trades assistent work such as safety detective, recurs assistant and plan operator. Note: The class assistent work such as safety detective, recurs assistant and plan operator.	quantitation requirements	Disconne ct an Reconnect – Clas	Work on undergro service conducto Class 2R	Work on overhe service conducto Class 2C	Install Type 5 an metering - Class 2D	Non-electrical qualified – 2X	Initial Training Requirement
 Scope of activities not concerning quantum personner to be registered with the Sci activities in accordance with the Science note: - cannot carry out 2A,2B, 2C or 2D work 	Certificate III in Electrotechnology Electrician (or equivale		* #	√ #	1	N/A	Endeavour Energy Electrical Safety Rules tr
Qualification Requirements: Nil	Certificate III in ESI – Power Systems – Distribution Cable	/#	1#			N/A	
 requisite Requirements: Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent); 	Jointing (or equivalent)						UETTDRRF06B Low voltage release and re (internal course code 8U009)
pecific Training and Assessment:	Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)	√ #		√#		N/A	HLTAID001 Perform CPR
 - UETTDREL14A - Working safely near live electrical apparatus as a non-electrical worker (or equivalent) itial Training and ongoing Annual Refresher Assessment: 							(internal course code 8U010) UETTDRRF11A Successfully complete test
- Electrical Safety Roles Training (1001) - Variesse and recrue (1009 / UTURBER068) - Cardio Palmonary Resuscitation (CPR) (1000 / HTA10000)) - Cardio Palmonary Resuscitation (CPR) (1000 / HTA10000)) - Cardio Palminary Initia (In a SP. Henrolessene (Internal Course rode & UTR*-external course rode I UTT0885108)) - Cardio Palminary Initia (In a SP. Henrolessene (Internal Course rode & UTR*-external course rode I UTT0885108))	Notes: ✔# – applicants must hold at least one of the qualification of	tions for this	authoris	ation			completion of polarity, phase sequence and integrity tests (internal course code 8U026)
 Pole top rescue training (internal course code U003; external course code UETTDRRF02B) Approved Asbestos Awareness Course (only required once for initial authorisation application) 							UETTDRRF02B pole top rescue training inc pre-climbing safety inspections of poles, bot
Ingoing 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/							and steel (internal course code 8U003) UETTDRRF08B EWP Emergency Escape (
adequately identify, assess and control electrical safety hazards.							(internal course code 8 U006);
This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, re interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3 rd party references from a	ular workplace and onsite						UETTDRRF10B First Aid in an ESI Environm
interactions, documenting safety tooloox taiks, collating workplace forms and other documented evidence, independent 3 party references from a supervisor, etc.	revious employer/						UETTDREL16A Working safely near live ele
							uETTDREL14A Working safely near live ele
Note: Authorisation for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the A expires, the authorisation of all employees must be suspended.	SP company accreditation						apparatus as a non-electrical worker
							Approved asbestos awareness training
¥							
onnect and Reconnect – Class 2A							
cope of activities covered by this authorisation: - 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 network operator assets and no mechanical changes to network assets are required. 	not involve accessing						
cope of activities not covered by this authorisation function: - Cannot carry out 2B, 2C, 2D							
ualification Requirements:							
 Primary qualification must include at least one of the following: Certificate III in Electrotechnology Electrician for equivalent: or 							
 Certificate III in Electrotechnology Electrician (or equivalent); or Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent); or 							
 Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent) 							
re-requisite Requirements: - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)							
Work safety in the construction industry (CPCCOPSIDD1 = NSW write card or equivalent) Specific Training and Assessment:				_			
nitial Training and Grouping Annual Refersher Assessment: - Electrical Safety Rules Training (U01)							
- LV release and rescue (U009 / UETTDRRF06B)							
- Cardio Pulmonary Resuscitation (CPR) (1010 / HITAID001)							
Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108) Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)							
 Potarity, phase sequence and neutral integrity tests (internal course code UU26, external course code UE11DKKF11A) 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/	r skills in order to						
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adequately identify, assess and control electrical safety hazards. This much a undertaken through a variety of means such as but not limited to: having a comprehensive queriebt over work scheduler (programs, re-							
adequately identity, 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, re interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3" party references from a	revious employer/						
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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, rej	revious employer/						
The may be undertaken through a variety of means such as but not limited to: buildge comprehensive eversight over work schedule/program, re interactions, concurrenting safety toolbox talls, collating workpicze forms and other documented evidence, independent 3 rd party references from a supervisor, etc.	revious employer/			•			
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This may be undertaken through a variety of means and a lab trace limited to: Javing a comprehensive overgidt over work schedules/program, or a superiors, etc	P company accreditation Work on overhead service conductors • Scope of activities covered by this authorization:		c	•			
This may be undertaken through a variety of means such as but not limited to: Javing a competensive energistic ner work schedule/program, re- niteraction, sourcementing valety toobox taik, calibring workplace forwar and other documented widence, independent 3 rd party references from a supervise, etc. Note: Autonomication for employees of a AS company must call be an initiation while the accreditation of the ASP company remains current. If the A expires, the authorisation of all employees must be surgended.	P company accreditation P company accreditation Work on overhead service conductors • Scope of activities covered by the authorisation • Scope of activities covered by t	rity seal; e point of comr	mon coupli				
This may be undertaken through a variety of means such as but not limited to: having a competensive overgidt over work schedule/program, or a supervisor, etc	Work on overhead service conductors Work on overhead service conductors Scope of activities covered by this authorisation: - Increase and registers in Indensous Tengrage - Consect undersourd foreign conductors to - Consect undersourd foreign conductors - Consect underso	rity seal; e point of comr e overhead dist	mon coupli	twork and in			
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The may be undertaken through a variety of means such as but not limited to: kiving a competensive energistic nerve well schedule/program, in a interaction, concurrently addy totoken take, calling wards for the main of the discontent of vaddy notable of "J'arry reference for a variety of the main start of documents addy totoken types of a ADP company remains current. If the <i>I</i> express, the authorization of a mployees of a ADP company next only be maintained while, information of the ADP company remains current. If the <i>I</i> express, the authorization of all employees must be superiod.	Prompany accreditation Prompany accreditation Work on overhead service conductors • Scope of activities covered by the authorization: - Renew and regions an indexvoor forms are - Scope of activities covered by the authorization forms are - Scope of activities covered by the authorization - Renew and regions an indexvoor forms are - Scope of activities covered by the authorization - Renew and regions an indexvoor forms are - Scope of activities covered by the authorization - Renew and regions and regions and regions and regions and regions are - Scope of activities covered by the article of the authorization - Renew and regions and regions are - Renew and regions are and regions are - Renew and regions are and regions are - Californian must include a treats on - Californian must inclu	rity seal; in goint of come overhead dist und service co- line and restor parary insulation int of supply a parary insulation on: of the following logy Electrician sector search and the following logy Electrician sector search and the following logy Electrician sector search and the following logy Electrician sector search and search and the following a sector sector search safety hazards and such as but hazards	man couplin tribution ne e supply or supply or a supply or a supply or a supply or a supply or a supply of a suppl	twork and in Class 2B is re- completion, //barriers wf f common co- lent); or head (or equi- d or equivale uivalent) rnal course of uivalent) rnal course of uivalent)	quired to info erer require upling (inclu- ivalent) int) code UETTDI 28) JETTDRRF06 nal course o plication) ety of work/1 a comprehe	tall the service d and the use of ding energised IRF108) B) (as required, de UETTDRF1 asks on the net rsive oversight	conductor from ground versi (ap to the first more ground versif) for workings including glows: connection (disconnection from overhead conductors); at propagalizants working adoft from an £447) (134)

Work on underground service conductors -Class 28 Work on overhead service conductors -Class 20 Instell Type 5 an 6 metering -class 20 ion-electrically qualified – 2X As Required * * * * *

Disconnect and connect - Class 2A

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expires, the authorisation of all employees must be suspended.

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-electric ally 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	-

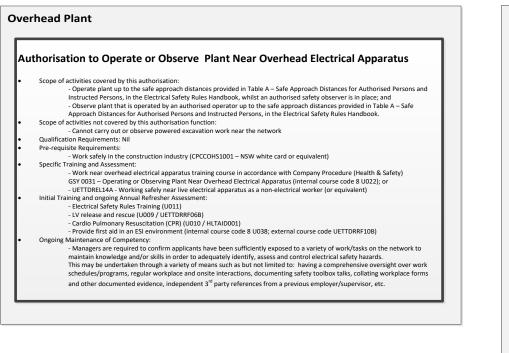
	Ļ
In	stall Type 5 and 6 metering – Class 2D
	Scope of activities covered by this authorisation:
	Remove and replace an Endeavour Energy security seal;
	 Install and remove metering equipment for meter types 5 and 6 and other Endeavour Energy service equipment; Utilise energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves;
- I	 Other energiese of work practices to apply emporing materiary and the set of the connection of the connection of the installation (including energiese connection/disconnection) at the connection point (including at an overhead point of attachment); and
	- Energise new installations.
1 P	Scope of activities not covered by this authorisation function:
	- Cannot carry out 28 or 2C Qualification Requirements:
	Quantization requirements.
	 Certificate III in Electrotechnology Electrician (or equivalent); and
	- Additionally, to be eligible for authorisation to Install Type 5 and 6 Metering an applicant must hold Qualified Supervisor Certificate – Electrical or an E
	Contractor Licence endorsed with a Q - Internal Applicants:
	 Internal Applicants. Certificate III in Electrotechnology Electrician (or equivalent);
	Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent); or
	 Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)
1 P	Pre-reguisite Requirements: - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
I I.	Work sately in the construction industry (CPCC0HS1001 – NSW white card or equivalent) Specific Training and Assessment:
	- External Applicants:
	 UETTDREL16A - Working safely near live electrical apparatus (or equivalent);
	 UEENEEK142A - Apply environmentally and sustainable energy procedures in the energy Sector (or equivalent); and Either:
	 - LITTER:S60A - Install and replace power system meters and associated Equipment (or equivalent); or
	 Our rotations - install, setup and commission interval metering (or equivalent) UENEEG371A install, setup and commission interval metering (or equivalent)
	- Internal Applicants:
	UETTORIS60A – Install and replace power system meters and associated Equipment (or equivalent)
I I	Initial Training and ongoing Annual Refresher Assessment: - Electrical Safety Rules Training (U011)
	Unclear structure (U009 / UETTORRF06B)
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	 Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)
	 Pole top rescue training (internal course code U003; external course code UETTDRRF02B) (as required for applicants working aloft) Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
	- Polarky, phase sequence and neutral integrity tests (internal course code occuse code of 10kkr11k) - Approved Asbestos Awareness Course (only required once for initial authorisation application)
I I.	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 interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3 rd 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 accredition of the ASP company remains current and the ASP company accredition of the ASP company remains current.
	expires, the authorisation of all employees must be suspended.



expires, the authorisation of all employees must be suspended.

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 accreditati

6.12 Authorisation Schedule 9



Excavation

Authorisation to Observe Excavation Work Near the Network

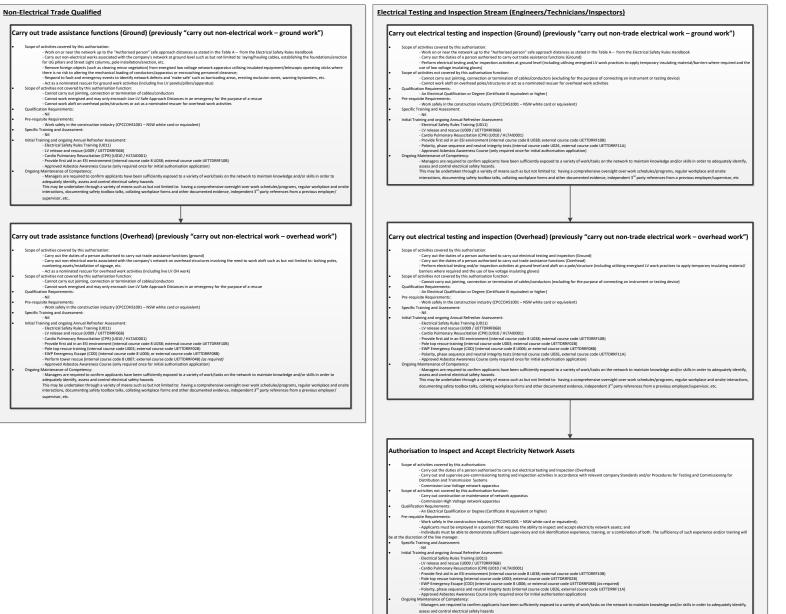
Scope of activities covered by this authorisation: - Observe powered excavation activities carried out by an authorised operator In accordance with the Electrical Safety Rules Handbook Scope of activities not covered by this authorisation function: - Cannot carry out powered excavation work near the 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 3rd party references from a previous employer/supervisor, etc.

Authorisation to Carry Out Excavation Work Near the Network

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



6.13 Authorisation Schedule 10



Endeavour Energy

ò	nstruct and Maintain Distribution Substation Equipment and Connection Work
	Scope of activities covered by this authorisation:
	 Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook Act as a nominated rescue for ground work activities (including the UV panel(s)/illitrs/paparatus) Act as a nominated rescue for overhead work activities (including line VU ON work)
	- Carry out OH and UG service and metering work including testing and connection work on customer installations (switchboards, pillars, POAs, etc.) (2A,2B,2C and 2D) - Construct and maintain OH and UG distribution switchgear, substations and equipment
	- Construct and maintain OH and UG street lighting systems - Carry out low voltage XLPE cable jointing and associated connection work - Perform energised connection and disconnection of UV cables and associated equipment (<u>both OH and UG</u>)
	 Connect generator cabling (both DH and UG) (Authorisation to Carry Out Low Voltage Network Switching is required for the operation of generators and associated switching activity)
	 Perform electrical testing, connection and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/barriers where required and the use of low voltage insulating gloves)
	Operate and observe plant near overhead electrical apparatus (distribution and transmission) Access Distributions Substitutions (including low voltage ancillary equipment) Scode of activities not covered by this authorisation function:
	- Cannot carry out energised overhead intervork practices (Low Voltage Live Linework) - Cannot carry out energised overhead intervork practices (Low Voltage Live Linework) - Control carry car
	 Cannot construct and maintain OH mains or UG mains (other than the specific activities listed above)
	 Cannot carry out HV cable jointing or CONSAC jointing
	 Cannot carry out construction or maintenance of transmission assets
	Qualification Requirements:
	- Primary qualification must include at least one of the following: - (certificate III in Electrotechnology Electrician (or equivalent); or - (certificate III in El = - Power Systems - Distribution Cable Jointing (or equivalent); or - Certificate III in El = - Power Systems - Distribution - Cable Jointing (or equivalent); or - Certificate IIII in El = - Power Systems - Distribution - Cable Jointing (or equivalent); or - Certificate IIII in El = - Power Systems - Distribution - Cable Jointing (or equivalent); or - Certificate IIII in El = - Power Systems - Distribution - Cable Jointing (or equivalent); or - Certificate IIII in El = - Power Systems - Distribution - Certificate - C
	 Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent); or
	- Craft certificate in Cable Jointing; or - Craft certificate in Linework
	 Additional competency requirements must include evidence of the following:
	 Training in public lighting systems; such as but not limited to: internal course code - NEIS4 / external course code - UETTDRISS3A) (or equivalent); an Training in distribution substations, switchgera and associated equipment (such as but not limited to: internal course code – Distswitch / external course code – UETDRISS3A) (or equivalent);
	Pre-requisite Requirements:
	- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) Specific Training and Assessment:
	- Nil
	Initial Training and ongoing Annual Refresher Assessment:
	- Electrical Safety Rules Training (U011) - LV release and rescue (U009 / UETTORRF068) - Cardio Pulmonara Resuscitation (CPR) (U010 / HLTAID001)
	Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108) Pole top rescue training (internal course code U003; external course code UETTDRRF028)
	EWP Emergency Escape (CDD) (internal course code 8 U006; or external course code UETTDRRF08B) (os required) Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
	 Approved Asbestos Awareness Course (only required once for initial authorisation application)
	Ongoing Maintenance of Competency:
	- Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to
	adequately identify, assess and control electrical safety baards. 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 an onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3 rd party references from a previous
	employer/supervisor. etc.

Co	nstruct and maintain UG mains - Distribution
	Scope of activities covered by this authorisation:
	 Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handboo - Act as a nominated rescuer for ground work activities (including live LV panels/pillars/apparatus)
	 Act as a nominated rescuer for overhead work activities (including live LV OH work) Construct and maintain UG distribution mains and apparatus including distribution substations and UG street lighting systems
	 Convolution of the instruction marks and upper acts including optications on the obstantions and opsite optiming systems Carry out cable initiation and termination work on Upd distribution cables and associated assets followers: followers:
	voltages; zzky, 12.7ky, 11ky, and low voltage including CONSAC) at ground level or on a pole
	- Carry out underground service work including installation, maintenance, testing and connection work on customer installations (switchboards, pillars, et
	(Carry out 2A and 2B service work)
	 Perform electrical testing and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to app
	temporary insulating material/barriers where required and the use of low voltage insulating glowes) - Perform energised connection and disconnection of <u>US</u> LV cables and associated equipment (including UGOH connections and 'like for like' components - Connect generator cabling (US_OH)/ (Authorization to Carry Out Low Voltage Network' Switching is required for the operation of generators and associated
	switching activity)
	 Act as the observer for excavation work near the network (distribution and transmission)
	 Operate and observe plant near overhead electrical apparatus (distribution and transmission)
	 Access Distribution Substations (including low voltage ancillary equipment)
•	Scope of activities not covered by this authorisation function:
	 Cannot construct and maintain OH mains Cannot perform energised connection and disconnection of <u>QH</u> LV cables and associated equipment
	Cannot perform energised connection and disconnection of <u>or</u> LV calves and associated equipment Cannot carry out energised overhead linework practices (Low Voltage Live Linework)
	Cannot carry out emergence overneae minework practices (cow vortage care) Cannot carry out construction or maintenance of transmission assets
•	Qualification Requirements:
	 Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent); or Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent) (with relevant competencies required to be eligible for a statement of attai
	in Distribution cable jointing); or - Craft certificate in Cable Jointing.
•	Pre-requisite Requirements: - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
	 work salely in the construction industry (CPCCOHS1001 – Now write card or equivalent) Specific Training and Assessment:
	. Nil
•	Initial Training and ongoing Annual Refresher Assessment:
	Electrical Safety Rules Training (U011) LV release and rescue (U009 / UETTDRRF068)
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	 Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
	 Fore cap rescue charming (incention course code occs), external course code on texterpaid (incention), etc. (incention), etc.
	 Polarity, phase sequence and neutral integrity tests (internal course code U025, external course code UETTDRRF11A) 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 sk
	order to adequately identify, assess and control electrical aftety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regula workplace and onsite interactions, documenting safety tooloko tailst, collating workplace forms and other documented evidence, independent 3 rd party
	references from a previous employer/supervisor. etc.
_	renences norm a previous employeey subjectioner, exc.

- Carry out the duties of a periora authorized to Construct and maintain UD Mains Distribution
 Construct and maintain UD Transitionism mains and apparatils
 Carry out cable jointing and termination work on overhead transmission structures carrying voltages up to and including 132kV
 Scope of activities not construct and maintain UP mains
 Carnot construct and maintain UP mains

- Concert control and material Of mate
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 Pre-equivalent experimentent:
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 Volts Liefly in the construction industry (FCCCMS1001 NSW white cal or equivalent)

- Specif. Transmigned Assessment: Thermost Transmigned Assessment: The Transmigned Assessment Assessment: The Transmigned Assessment: The Transmigned Assessment: The Transmigned Assessment Assessment The Transmigned Assessment Assessment Assessment Assessment Assessment Assessment Assessment Assessment
- references from a previous employer/supervisor, etc.

Linework Stream

Construct and maintain OH mains - Distribution

Scope of activities covered by this authorisation: • Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook
 How on the intervence of a sub-section of the section of the section
 Act as a nominated rescuer for overhead work activities (including live LV OH work)
 Construct and maintain OH distribution mains and apparatus including distribution pole substations and OH street lighting systems
 Carry out line work on overhead distribution structures, (structures carrying 22kV, 12.7kV, 11kV, and LV apparatus)
- Carry out overhead service work including installation, maintenance, testing and connection work on customer installations (switchboards, POAs, etc.) (Carry out 2A and 2C service work)
 Perform electrical testing and/or inspection activities at ground level and aloft on a pole/structure (including utilising energised LV work practices to apply temporary insulating material/ barriers where recuired and the use of low voltage insulation eloxies)
partners where required and the use of low vortage insulants groves) Perform energiade connection and disconnection of DH V cables and associated equipment (including USOH connections and 'like for like' components only)
 Perform energiese commection and exonances on the same associated and associated and associated switching activity) Connet generator cabing (04 poly) (Authorisation to Carry Out Low Voltage Network Switching is required for the operation of generators and associated switching activity)
Operate and observe plant near overhead electrical apparatus (distribution and transmission)
 Remove foreign objects (such as clearing vegetation) from energised network apparatus utilising powered tools and insulated equipment/telescopic operating sticks where the risk of altering
the mechanical loading of conductors/apparatus is controlled and safe approach distances can be maintained
Scope of activities not covered by this authorisation function:
- Cannot construct and maintain UG mains
Cannot perform energised connection and disconnection of UG UV cables and associated equipment
- Cannot carry out energised overhead linework practices (Low Voltage Live Linework) - Cannot carry out construction or maintenance of transmission assets
Campic construction or maintenance or claristission assess Outliftication Requirements:
Certificate II in ESI – Power Systems – Distribution Overhead (or equivalent): or
- Certificate III in ESI - Power Systems - Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution overhead); or
- Craft certificate in Linework.
Pre-requisite Requirements:
- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
Specific Training and Assessment:
- Nil Initial Training and ongoing Annual Refresher Assessment:
Electrical Safety Rules Training (U01)
LV release and rescue (U009 / UETTDRRF06B)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
 Provide first ald in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
EWP Emergency Excape (CDD) (internal course code 8 UODS; or external course code UETTORRF088) Polarity, phase sequence and neutral internity texts: (internal course code UETCS external course code UETTORRF11A)
Fouries prove Aspense and interfair regimy ress (internal course code ouzs), exemital course code ou Town 124) Approved Aspenso Aspenso Course
- Approve Automatic 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.

Construct and maintain OH Mains - Transmission

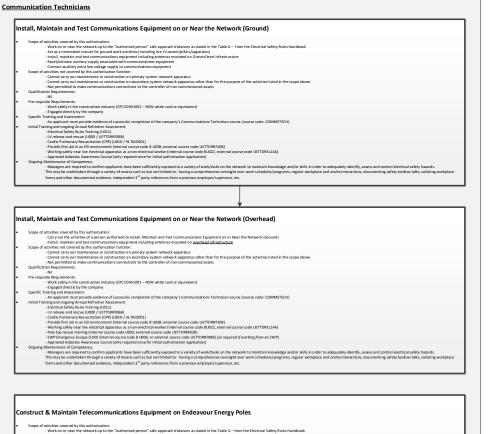
•	Scope of activities covered by this authorisation:
	 Carry out the duties of a person authorised to Construct and maintain OH Mains - Distribution
	 Construct and maintain OH Transmission mains and apparatus on overhead transmission structures carrying voltages up to and including 132kV
	Scope of activities not covered by this authorisation function:
	Cannot construct and maintain UG mains
	 Cannot carry out energised overhead linework practices (Low Voltage Live Linework)
	Cannot carry out work on steel lattice transmission towers
	Qualification Requirements:
	 Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent): or
	 Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution overhead);
	Craft certificate in Linework.
	Pre-requisite Requirements:
	Work safely in the construction industry (CPCC0HS1001 – NSW white card or equivalent)
	Specific Training and Assessment:
	· NI
	Initial Training and ongoing Annual Refresher Assessment:
	Electrical Safety Rules Training (UD11)
	- 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)
	 Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
	 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 Asbestos Awareness Course
	Probationary Period:
	 Managers confirm applicants gain sufficient exposure to transmission overhead activities ranging in type and complexity under the direct supervision of a person authorised as a Lineworker
	(Transmission) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control electrical safety hazards. (Progression from the probationary period to
	become authorised as a Lineworker (Transmission) is at the discretion of transmission line management)
	Orgoing 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.

onstruct and maintain OH Mains – Transmission Towers

- Scope of activities covered by this authorization: . Carry out the duties of a person authorized to Construct and maintain OH Mains Transmission . Carry out the work and associated construction/initiatemana autivities on stell listics towers carrying voltages up to and including 132kV. Scope of activities construct and maintain IC mains . Construct and environment in Rowing maintain IC Rowing . Card construct and in ISI Power Systems Distribution Deshtad (or equivalent) (or . Cardinal III ISI Power Systems Distribution Deshtad (or equivalent) (with relevant competencies required to be eligible for a statement in Distribution re-rescaled ta Begiorement.

- Usin certificate in Linework.
 Viola certificate in Linework.
 Viola certificate in Linework.
 Viola certificate in Linework (CPCCHS1001 NSW white card or equivalent)
 High Risk Work Licence for Basic Rigging (CPCCLRG3001A Licence to perform rigging basic level)
 SeedEr Taning and Assessment:
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- Specific Transmission and Aussessment:
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- period to become admonted a sufficience ("International Towards) is at the discretion of <u>transmission</u> line management) Organ planemasco admontent of the sufficiency of the sufficiency expected to a survively of work/tack on the network to maintain inswelding and/or skills in order to adequately identify, "Advangent as it regime to confere hearing." This may be undertaken through a survively internative to a survively of work/tack on the network to the advantagement, regular workplace and oncide internations, documenting safety toolbox talks, colluting workplace forms and other documented evidence, independent 3⁴ party references from a previous employer/supervisor, etc.



Construct, Maintain and Test Secondary Systems Scope of activities covered by this authorisation Tartivities covered by this authorisation: Velvix on or eran't network up to the "Authorised period" safe approach distances as stated in the Table A – from the Electrical Safety Rules Hendbook - Act as a nonmated rescaring to provide authorisation (Electrical Berly VC) and (A) - Act as a nonmated rescaring for contraduation activations (Including the VC) and (A) - Act as a nonmated rescaring for contraduation activations (Including the VC) and (A) - Act as a nonmated rescaring for contraduation activations (Including the VC) and (A) - Act as a nonmated rescaring for contraduation activations (Including the VC) and (A) - Including (Including the VC) and (Including the VC) - Including (Including the VC) and (Including the VC) - Including (Including the VC) and (Including the VC) - Including (Including the Including the Includin Operate and observe plant new overhead electrical apparatus (distributio Scope distributes on covered by this unhorisation function: Cannot construct, maintain or tet girmany systems Cannot carry out construction or maintenance of distribution substations Cannot carry out construction or maintenance of distribution substations Cannot carry out construction or maintenance of network mains Cannot carry out construction or maintenance of network mains An electrical qualification (certificate III equivalent or higher) Pre-requist Requirements: Pre-requisite Requirements: - Work safely in the construction industry (CPCCOH51001 – NSW white card or equivalent) Specific Training and Assessment: - NI - NI External ade ongoing Annual Refresher Assessment: External ade ongoing Annual Refresher Assessment: External ader Spaine arternal (UDX) (UDX) External ader Spaine addressessment: Provide fast ad in an 15 annivery (UDX) (UDX) (UDX) Provide fast ad in an 15 annivery (UDX) (UDX) (UDX) (UDX) Provide fast ad in an 15 annivery (UDX) (Dright Buttering and Competency. - Nanagers are required to confirm applicants have been sufficiently supposed to a variety of work/tasks on the network to maintain inpowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. - Tism my be undertainen through survey of manus such as to the limites to image a comprehensive evenight over work scheduler/porgrams, regular workplace and onsite interactions, documenting after too box tasks, colating workplace forms and other documented evidence, independent 3rd party references from a previous employer/supervisor, etc.

Construct. Maintain and Test Primary Systems

Transmission Technologist Stream

•	Scope of activities covered by this authorisation:
	 Construct and maintain primary systems within a major substation (all equipment operated at voltages defined as HV)
	 Construct and maintain earthing systems within substations containing live equipment
	- Carry out HV testing on network apparatus, and network mains
	 Standby fallen conductors and make safe distribution apparatus (cut away low voltage service conductors, apply temporary insulating material, erect barricading, etc.)
•	Scope of activities not covered by this authorisation function:
	Cannot carry out construction or maintenance of distribution substations
	Cannot carry out construction or maintenance of network mains
	Qualification Requirements:
	An electrical gualification (Certificate III equivalent or higher)
	Pre-regulate Regularements:
	 Work safely in the construction industry (CPCC0H51001 – NSW white card or equivalent)
•	Specific Training and Assessment:
	- NI
•	Initial Training and ongoing Annual Refresher Assessment:
	Electrical Safety Rules Training (U011)
	- LV release and rescue (U009 / UETTDRRF068)
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	 Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
	Pole top rescue training (internal course code U003; external course code UETTDRRF02B)
	 EWP Emergency Escape (CDD) (Internal course code 8 U006; or external course code UETTDRRF08B) (as required if working from an EWP)
	 Perform rescue from switchyard structures at heights (transformer rescue) (internal course code 8U005; or external course code UETTDRRF05B) (as required)
	 Polarity, phase sequence and neutral integrity tests (internal course code U026, external course code UETTDRRF11A)
	 Approved Asbestos Awareness Course (only required once for initial authorisation application)
•	Ongoing Maintenance of Competency:
	 Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
	This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace
	forms and other documented evidence, independent 3 rd party references from a previous employer/supervisor, etc.
4	terma era orden eradente, melpenant all perspresenter managematica erada employen auper autor, etc.

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ŀ	 Scope of activities covered by this authorisation: • Work on or near the network up to the "Authorised person" safe approach distances as stated in the Table A – from the Electrical Safety Rules Handbook • Carry or WRW Works on Enforcement Energy podes
ŀ	Qualification Requirements:
L	- NI
ľ	Pre-requisite Requirements: · Work safely in the construction industry (CPCCDHS1001 – NSW white card or equivalent) · Compary must be accredited with the Department of Planning and Environment and maintain its ASP accreditation.
ŀ	Initial Training and opping Annual Refresher Assessment: Werk shall be the construction durity (PCCCDB 2010 – NSW white card or equivalent) UITTORELSA. Werking safely near line decircul appartuants as a non-selectrical appartuant so as and explored equivalent) International former decircul appartuants as a non-selectrical appartuants as a non-selectrical appartuant so as and the selectrical appartuants as a non-selectrical appartuant so as and the selectrical appartuants as a non-selectrical appartuant so as and the selectrical appartuants as a non-selectrical appartuant so as and the selectrical appartuant so as a selectrical appartuant so as and the selectrical appartuant so as an appartuant appartuant appartuant appartuant appartuant appartuant appartuant appartuant appartment. Provide first add in an 35 environment UITDBRIDE-refreshed annually Provide first add in an 35 environment solution appartuant app
ŀ	Orgong Maintenance of Competency: - Management are required to coordim applicants have been afficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or akils in order to adequately identify, assess and control electrical safety haurds. This may be undertaken through a warriety of means such as but not limited to: having a comprehensive oversight over work scheduler/programs, regular workplace and onsite interactions, documenting safety too box tasks, collating workplace forms and other documented evidence, independent 3rd garty references from a previous employer/supervisor, etc.
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6.14 Authorisation Schedule 11

Live Low Voltage Work – Ground Based Distribution Live Line Worker		
oper of a shifting on early 10 the administration - Group and the shifting on the conformation of administration and on administration devices a dating that U washing tables, actualizes any wash involving the - Regiment of a magnetic shifting and administration of administration devices a - Regiment of a magnetic shifting and administration of administration devices a - Regiment of a magnetic shifting and administration of administration devices a - Regiment of a magnetic shifting administration of adminis		
Imstallation of cables in padmount substitution, pillar, columns, and substation endosures; Replacement of components such as writinger; and Semplice complete feed the complete generations		· · · · · · · · · · · · · · · · · · ·
ope of activities not covered by this authorization function: - Cennot construct and maintain UG mains	High Voltage Live Linework (Glove and Barrier up to and including 22kV)	High Voltage Live Linework (Stick up to and including 22kV)
gee of a Selfer and Counted by this address that for function: - Constant controls de mananta to d'anna terration of the material de mananta terration of the self self self self self self self sel	Scope of activities covered by this authorisation: Carry out the duties of a person authorised for Live LV Overhead Linework	 Scope of activities covered by this authorisation: Carry out the duties of a person authorised for Live LV Overhead Linework
- Primary qualification multireluide at least one of the following: - Certificate II in Fig. Primary Casterna - Distribution Deschard (or any solater) - or	soge of a climate that the form of a promous mean. (a) a second	 Scope at an upper and the prime approximation of the UV Denotes Table and Tables A. - Corry statistical approximation of the UV Denotes and granual has profiled upper payment distances as stated in the Table A. – from the Electrical Sal Instructional statistics granual has attributed in the state and the state of the state and the Sale A. – from the Electrical Sale Instructional statistics granual has attributed in the state of the state of the state of the Sale A. – from the Electrical Sale Instructional states rection state of the states restrictions:
- Interry staffasten naturalizat et la tate ne de falanze:	Scope of activities not covered by this authorization function: - As above in addition to: . Competence yout may Strick IV/Line Linearytic	Scope of activities not covered by the automation function: - As above in addition to: - Cannot carry out stylic love and Barrier MY Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Unework - Cannot carry out stylic love and Barrier MV Uve Uve Uve MV
Distribution overhead); or - Craft certificate in Linewark; or Craft certificate in Charlestone	Support and text on control by the address table features Support and text of the address table features Support and the state of the s	Cannot carry out Stick work above 22kV Cannot carry out construction or maintenance of transmission assets
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	the enquirements: - See High Votage Live Linework (Common Requirements) in addition to:	Pre-requisite Requirements: - See High Voltage Live Unework (Common Requirements) in addition to:
- Work why in the construction industry (CPCCDIS2001 – MSW white card or equivalent) pacific Training and Assessment:	Low Voltage Live Linework Specific Training and Assessment:	Low Voltage Live Linework Specific Training and Assessment:
- Werk wildly in the construction Model (CCCDDSIZE – XXW wildle card or equivalent) for high card anomatic method method cores can core due to the construction of th		
- LV release and rescue (U009 / UETTORATOLE) - Cardio Pulmonary Resuscitation (CPR) (U010 / NETRID001) - Cardio Pulmonary Resuscita	Initial Training and opgoing Annual Alexandre Assessment: Electrical Safety Rules Training (U001) Electrical Safety Rules Training (U001) Electrical Safety Rules Training (U001)	 Initial Training and ongoing Annual Reference Automatent: - Electrical Safety Rules Training (U011) -IV reference and neuron (U007) (UTITINGEDIDIA)
- Provide finit aid in an ESI environment (internal course code 8 U003); external course code UETTDRRF208) - Pole top rescue training (internal course code 8 U003); external course code UETTDRRF208)	Cardio Pulmonary Resuscitation (CPR) (U000 / HLTAUD001) Provide finst ad in an ESI environment (Internal course code II U038; external course code UETT0889108)	Cardio Pulmonary Resuditation (CRI) (UDID / HLTAID001) Provide first aid in an ES environment (internal course code 8 UDIB; external course code UETTDRRF108)
-Provide for Lat di no ES envisoremiti (Internationana de La CLUB, extendi anna cada CLUB (ELTERATION) -Prote Synamic Variangi (Internationana de La CLUB, extendi anna cada CLUB (ELTERATION) -Porte Synamic Variangi (Internationana de La CLUB, extendi anna cada CLUB (ELTERATION) -Porte Synamic Variangi (Internationana de La CLUB, extendi anna cada CLUB (ELTERATION) -Porte Synamic Variangi (Internationana de La CLUB, extendi anna cada CLUB (ELTERATION) -Porte Synamic Variandi (Internationana de La CLUB (ELTERATION) -Porte Synamic Variandi (International de La CLUB (ELTERATION) -Porte Synamic Varian		
 - Special Advances Advances and a service and a service and a service and a special and a service and	Polarity, phase sequence and neutral integrity tests (internal course code UCDE, external course code UETTDBRF11A) Approvel Aubeston Awarenews Course (only required once for initial authoritation application)	 Polarity, phase sequence and neutral integrity tests (internal course code UO26, external course code UETTORF11A) Approved Aebentos Awareness Course (only required once for initial authoritation application)
 - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular 	Vrtdar: See High Voltage Live Linework (Common Requirements) Orgoing Maintenance of Competency:	Vrotadodary veroo: See High Voltage Live Linework (Common Requirements) Orgoing Maintenance of Competency:
workplace and on-lite interactions, documenting safety toolbox talks, colliding workplace forms and other documented evidence, independent and party references from a previous employer/ supervisor, etc.	Complete a minimum of ten days high voltage live work in each six month period; Have undergone a high voltage live work audit in the field in previous 12 month; and	- Complete a minimum often days high voltage live work in each six month period; - Have undergone a high voltage live work audit in the field in previous 12 months; and
	 Successfully complete refresher training in the company high voltage live work manual in the previous 12 months (refresher training will be contextualised for the level(s) of authorization function held) 	 Successfully complete refresher training in the company high voltage live work manual in the previous 12 months (refresher training will be contextualised followel(i)) of authorization function held)
	Regaining Authorisation (for applicants who have not renewed authorisation within a 12 month period): Complete high voltage law work refresher training; and	Regaining Authorisation (for applicants who have not renewed authorisation within a 12 month period): Complete high voltage live work refresher training; and
	- Complete a information productionary period of sub-hours of any vorsage level work under carect supervision of a sive work mentor in one – six months; and - Have undergone a high voltage live work audit in the field during this period.	 Complete a lindretenid productionary period of 100 notifs of right vehicles we work under direct supervision of a reversion memory in one – six months; and Have undergone a high voltage live work audit in the field during this period.
ow Voltage Work - Overhead (previously "Low Voltage Live Linework")		
- Carry out live low voltage work on overhead distribution structures utilizing live LV working techniques, includes any work involving the:		
Re-positioning of energised conductors / change of tension or loading to energised conductors including energised cross arm replacements Stringing, sugmentation 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 awtiching is covered within the scope of Low Voltage Vietwork Switching) 	Transmission Live Line Worker	
- Intripied pole change owen poper of activities not overred by this authoritation function: - Cannot construct and marinal UG marins		
Working work - Underlined (previous)* (Low Working Crude Linework) See a set of the set one of the set of the		
	High Voltage Live Linework (Glove and Barrier up to and including 33kV)	High Voltage Live Linework (Stick up to and including 66kV)
- Certificate III in EX - Power System - Listification Overhead (or equivalent) or - Certificate III in EX - Power System - Distribution Cable Jointing (or equivalent) (with relevant competencies required to be eligible for a statement of attainment in Distribution underself or	Scope of activities covered by this authorisation: - Carry out the duties of a person authorised for Live LV Overhead Linework	Scope of activities covered by this authorisation: - Carry out the duties of a person authorised for Live LV Overhead Linework
- Craft certificate in Linework. - Additional correlement must include the followine:	 Carry out line work on overhead distribution structures and <u>encroach the uperfield wife approach distances</u> as stated in the Table A — from the Electrical Safety Rules. Handbook utilising approved live Glove and Barrier IW working techniques up to and including 23kV. 	 Carry out line work on overhead distribution structures and <u>encroach the specified safe approach distances</u> as stated in the Table A – from the Electrical Safe Handbook utilising approved live Stick IVI working techniques up to and including 6647.
-Renry application matched at an end the Manage	Sequel division concerts by the substration: Compared which and a provide the substration of the USD whereas a lower provide the substrate and the substrate in the sub	 Stopped articities covered by the automatication. Carp and articities covered by the automatication of the Use VD-entreed Locascel. Carp and articities are automatication of the Use VD-entreed Locascel. Stopped articities covered by the automation features. Automation additionation features. Covert and any of using Carbon and Banker Million Garaves.
	Cannot carry cut any stick IVI Live Linework Cannot carry cut Giove and Barrier work above 33/k/ Cannot carry cut Giove and Barrier work above 33/k/	Cannot carry out any outer and same rive use unework Couldration Resolutionerster Dealitization Resolutionerster
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the second	- Const any ind Sovie Marrier with Alon 3197 - Const any ind Sovie Marrier with Alon 3197 - Const Alongements - Pre-result Regressments - Free statist Regressments - Constraint (Theoremic) -	- Our damp of any
- Cardio Pulmonary Resultation (CRR) (U010 / HLTAID001) - Provide finst aid in an ESt environment (Internal course code 8 U038; external course code UETTDRRF108)	- Low Voltage Live Linework Specific Training and Assessment:	Low Voltage Use Linework Specific Training and Aussments UTTIDESSA Contribute to conducted the working (or equivalent); and UTTIDESSA Contribute regressed VM databation overhead electrical approximation (bits)
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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	 Construct & Maintain Overhead Mains – Distribution; or Construct & Maintain Overhead Mains – Transmission; or Construct & Maintain Overhead Mains - Transmission Tower 	 Hold Low Voltage Access Authority (LVAA); or Hold Access Authority for Work (AAW) Install and Remove Working Earths; or Install and Remove Operational Earths 	
Class 1B (previously known as Category 2a Underground) – Underground Paper lead and Polymeric Class 1C – (previously known as Category 2b Underground) – Underground Polymeric only	 Construct & Maintain Under Ground Mains Distribution; or Construct & Maintain Under Ground Mains Transmission 	 Hold Low Voltage Access Authority (LVAA); or Hold Access Authority for Work (AAW) 	
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.	 Carry out trade assistance functions (Ground); or Carry out trade assistance functions (Overhead); or Construct & Maintain Telecommunications Equipment on Endeavour Energy Poles 	 Operate or Observe Plant Near Overhead Electrical Apparatus Observe Excavation Work Near the Network; or Carry Out Excavation Work Near the Network Hold Access Authority for Work (AAW) – Personal Issue 	



Level Two		
Class 2A (previously known as Category 1) – Disconnect and reconnect	Disconnect and Reconnect – Class 2A	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 	 Hold Low Voltage Access Authority (LVAA); and Access distribution substations (including low voltage ancillary equipment)
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) 	 Distribution substations (including low voltage ancillary equipment) Zone/transmission substations - personal entry
Class 3B – Design of UG electricity reticulation	 Carry out Electrical Testing and Inspection (Ground) 	 Distribution substations (including low voltage ancillary equipment) Zone/transmission substations - personal entry



7.0 FREQUENTLY ASKED QUESTIONS

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

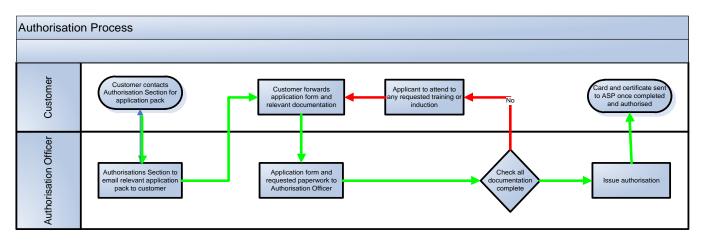
Yes, unless you are under supervision. All people wishing to work on or near the Endeavour Energy electricity network without authorised supervision will be appropriately authorised, once they have met the competency requirements that are requested for each individual function.

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 <u>authorisations@endeavourenergy.com.au</u>



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.

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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: authorisation@endeavourenergy.com.au

How do I obtain sealing pliers?

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

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

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

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

Notes:

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

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



Harcor Australia

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

What is 'Power of Choice' metering?

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

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

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

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

What happens with the current process?

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

Bulk Limit on Meter Issue:

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

Important Changes to Issuing of Load Control Devices:

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

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

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

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

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

8.0 CONTACT INFORMATION

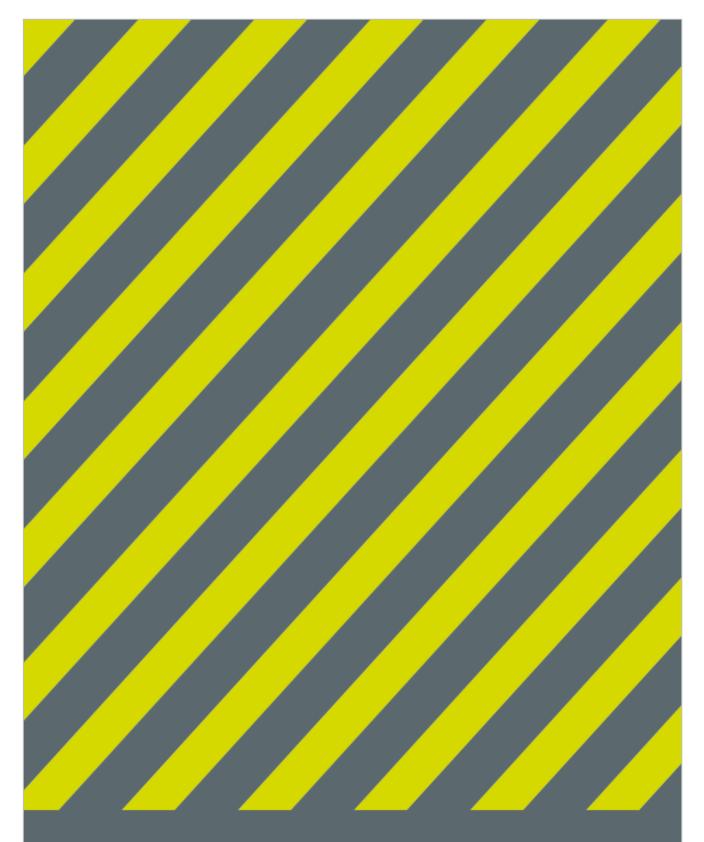
Enquiries:

- For authorisation enquires regarding applications, processing, etc., please contact: <u>authorisations@endeavourenergy.com.au</u>
- For Endeavour Energy Electrical Safety Rules or general electrical safety advice, please contact: <u>electrical.safety@endeavourenergy.com.au</u>
- For Training Delivery enquiries, please contact: technical.training@endeavourenergy.com.au
- For technical enquiries, please contact: inspection@endeavourenergy.com.au
- 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
- <u>Accredited Service Provider (ASP) Scheme and contestable works</u>
- Service and Installation Rules of New South Wales
- Electricity Industry Safety Steering Committee Guidelines
- <u>Australian Government Asbestos Information</u>
- <u>Safe Work NSW Work Near Overhead Powerlines Code of Practice 2006</u>
- Safe Work NSW Work Near Underground Assets Guide 2007





SAFETY EXCELLENCE

IN EMERGENCIES CALL 131 003

24 hours a day, 7 days a week