

## ELECTRICAL SAFETY AUTHORISATIONS

**Authorisations Manual** 

**Electrical Safety & Performance** 

**March 2018** 



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## 1.0 INTRODUCTION

### 1.1 **Purpose**

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

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

### 1.1.1 Work 'on or near'

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

## Authorised person

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

## Instructed person

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

## **Ordinary Person Clearance**

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

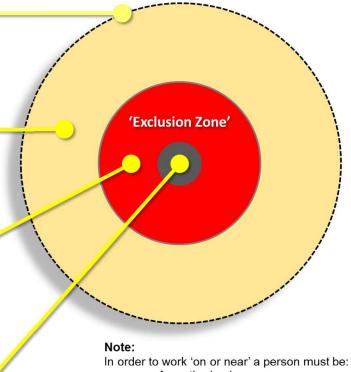
## **Working Near** (within 3 metres of the network)

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

## Working On (within Safe Approach Distance)

Persons shall not allow any portion of their bodies or 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.

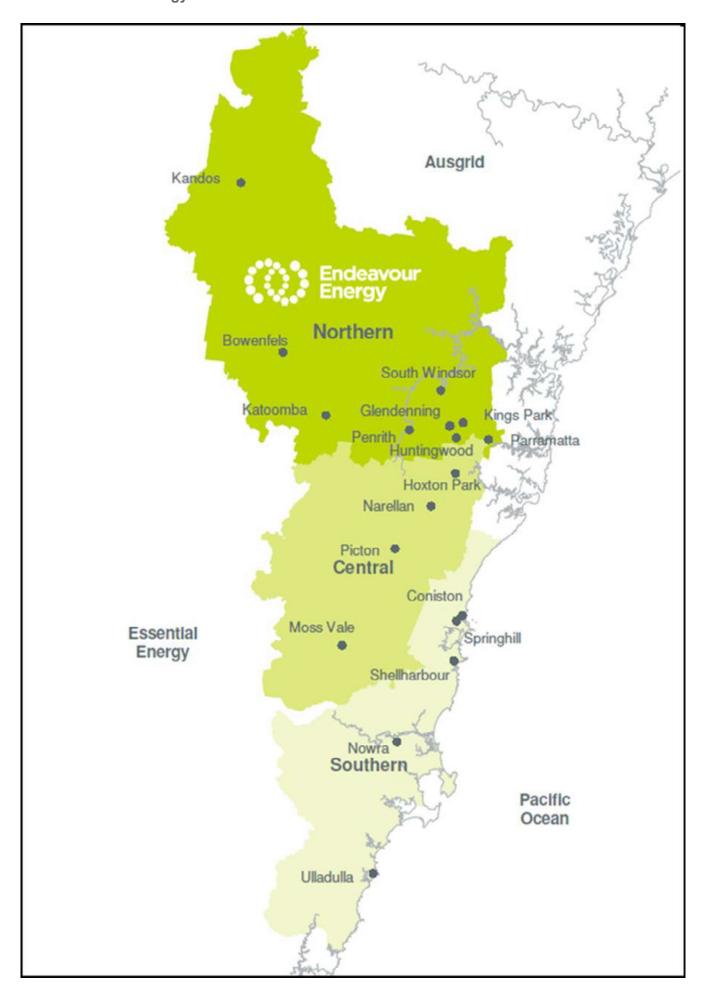
Working On (in contact with the network)



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



## 1.1.2 Endeavour Energy Franchise Area



## 1.2 Safety management

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

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

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

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

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





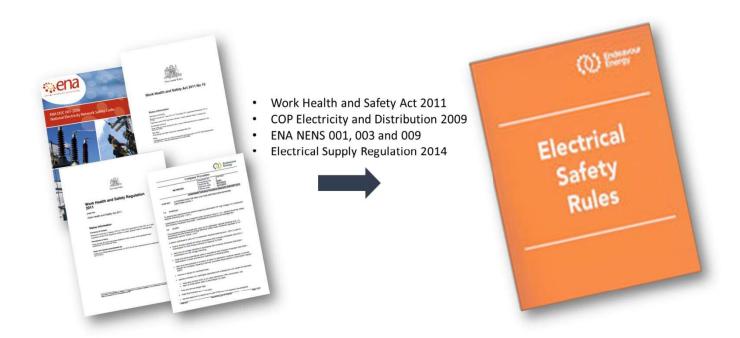
## 1.3 Electrical Safety Rules

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

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

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

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



- Endeavour Energy Electrical Safety Rules July 2016
- Endeavour Energy Electrical Safety Rules associated procedures

If you have an enquiry about electrical safety, please contact: electrical.safety@endeavourenergy.com.au



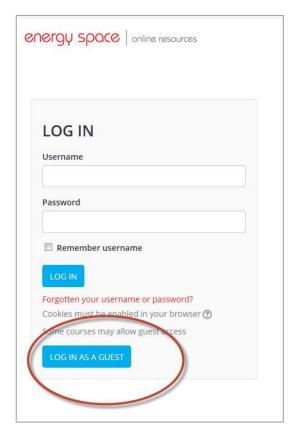
### 1.4 Mandatory asbestos awareness training

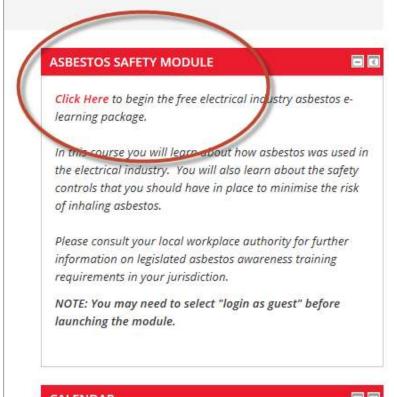
All authorisations where asbestos containing material is likely to be encountered require the worker to undertake a basic asbestos safety introduction e-learning module.

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

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

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





## 2.0 PRINCIPLES OF AUTHORISATION

### 2.1 Competency

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

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



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

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

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



## 2.2 Line manager support of competency

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

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

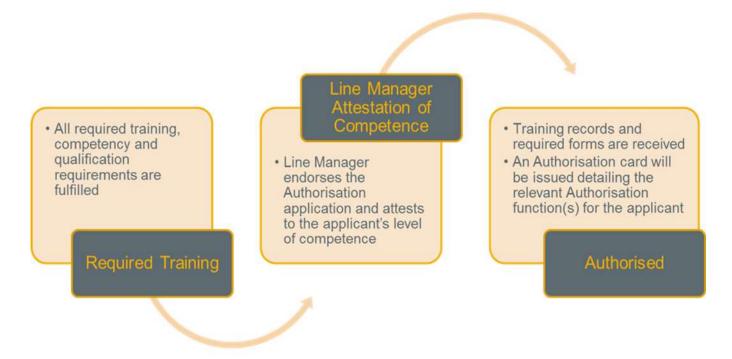
There are a range of requirements specified for each authorisation function. These generally include a qualification, certain specialised initial training courses, and a range of refresher training that needs to be completed each year.

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

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

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

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



## 3.0 TRAINING REQUIREMENTS

## 3.1 Endeavour Energy Technical Training Delivery

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

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

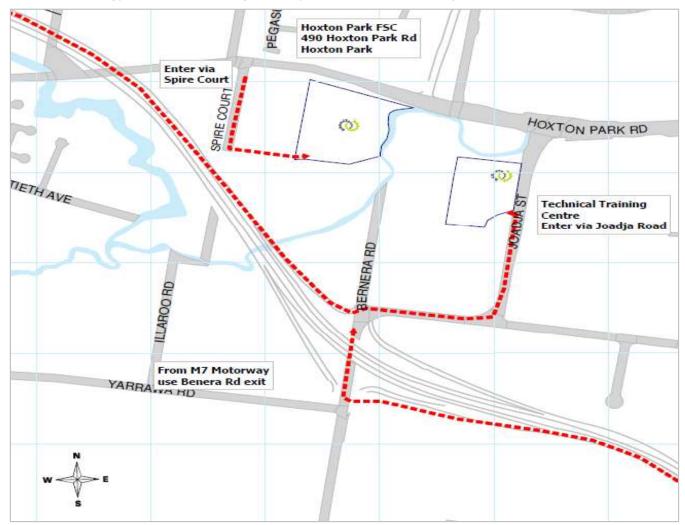
- Initial Electrical Safety Rules training
- Substation entry training
- Access Authority training
- LV and HV switching training

## Contact:

Email: technical.training@endeavourenergy.com.au

• Phone: 9853 7522

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





## 3.2 External Registered Training Organisations (RTOs)

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

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

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

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

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

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

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

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





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



## 4.0 REQUIREMENTS FOR SUPERVISION

## 4.1 General

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

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

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

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



General Information on apprentice supervision:

NSW Department of Industry Supervising your apprentice or trainee



## 5.0 ACCESSING THE NETWORK

## 5.1 Network Access Card

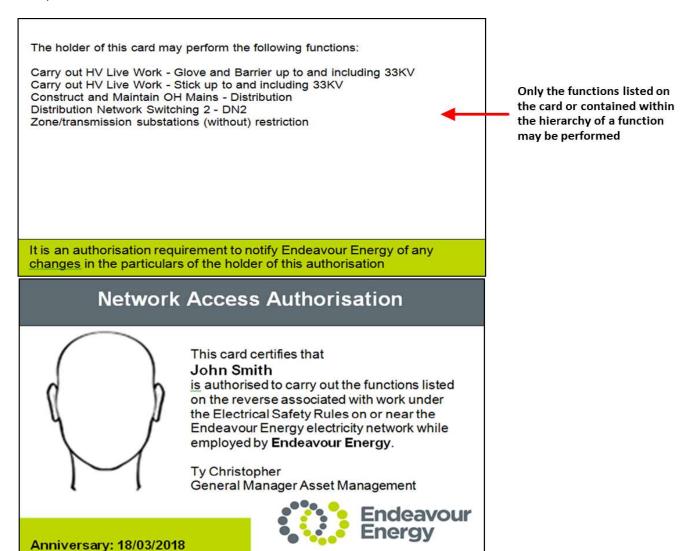
In order to provide evidence of appropriate authorisation, a network access authorisation card must be issued listing the specific functions a person is authorised to carry out.

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

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

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

Sample network access authorisation card show below:



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

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



## 6.0 AUTHORISATION FUNCTIONS

### **Authorisation hierarchy** 6.1

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

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

## Example 1:

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

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



## Example 2:



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

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

## Example 3:

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

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





## Schedule 1 - Permit Recipient and Earthing Authorisations



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

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

Further detail in section 6.4

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

## Schedule 2 – Distribution Switching Authorisations

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

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

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



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



## Schedule 3 – Transmission Switching Authorisations



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

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

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

Further detail in section 6.6

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

## Schedule 4 – System Operator Authorisation

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

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

Further detail in section 6.7

System Operators (Control Room)

## Schedule 5 – Substation Entry Authorisations

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

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

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



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



## Schedule 6 - Vegetation Management Authorisations



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

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

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

Further detail in section 6.9

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

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

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

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

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



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



## Schedule 8 - Service and Metering Authorisations



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

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

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

Further detail in section 6.11

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

## Schedule 9 - Plant and Equipment Authorisations

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

- Operate/Observe plant near overhead powerlines details the competency requirements for safe work practices with observers for close approach activities using plant within 3 metres of powerlines.
- Observe excavation work near the network details the requirements for the identification and locating of underground services through site inspections and interpretation of relevant plans/drawings.
- <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.

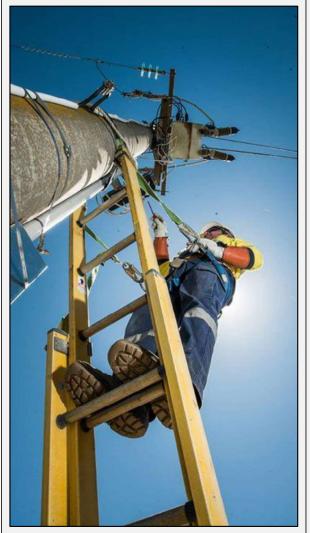
Note: Some trade based authorisation functions listed in Schedule 10 may include the ability to operate/observe plant near overhead powerlines and/or observe excavation work near the network.



- 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 Overhead Linework Authorisations

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

Low Voltage Live Line Work includes any work involving the:

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

High Voltage Live Line Work is broken into four streams:

- · Live Stick HV working techniques up to and 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

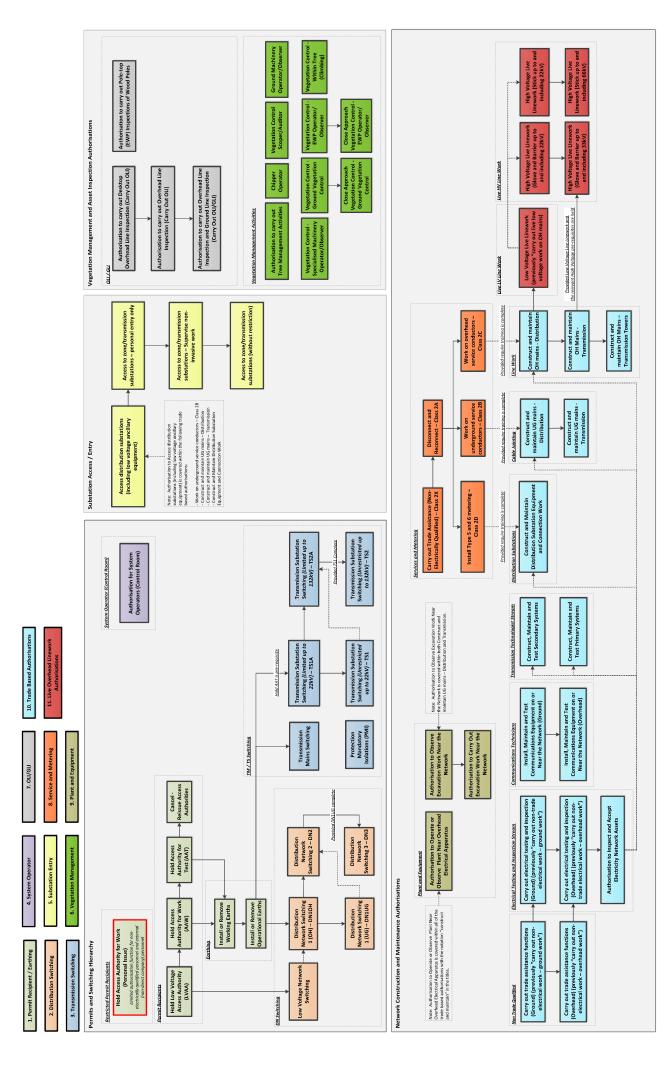




- Low Voltage Live Linework (previously "carry out live low voltage work on OH mains)
- High Voltage Live Linework (Glove and Barrier up to and including 22kV)
- High Voltage Live Linework (Stick up to and including 22kV)
- High Voltage Live Linework (Glove and Barrier up to and including 33kV)
- High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



# 6.3 Authorisation hierarchy overview

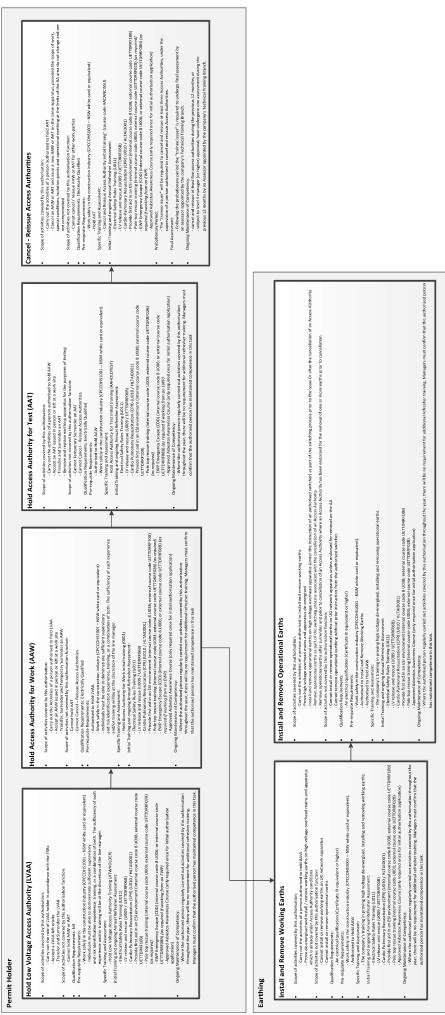




## 6.4 Authorisation Schedule 1

# Permit Recipient and Earthing Authorisation Hierarchy



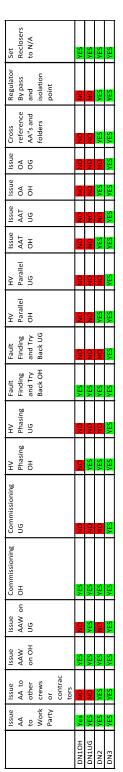


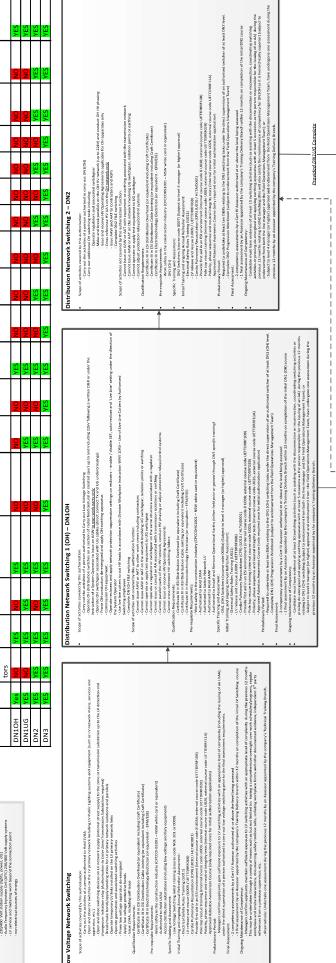


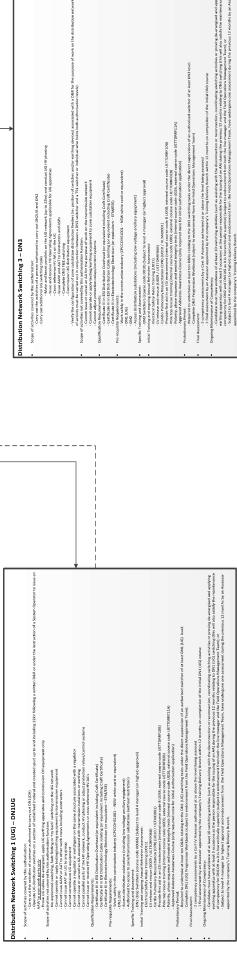
## 6.5 Authorisation Schedule 2

## Distribution Switching Authorisation Hierarchy

d does		ppiles, etc) ems
Switching Non-Network Systems is not applicable and does not require authorisation (GSY0093)	Non-network systems include:	L. V. apple to a Section of Under Enrodement     Sudding to Section of Under Enrodement     Sudding V. Sudding vol. of station sperime filter, pumps, motor supplies, etc.]     L. 200, 400 V. of station supply lights, prover filter,     L. Audio frequency effection cell (Articl 12046). Ode supply system     L. V. service and metaling risked behand the connection point     rison-electrical shources of energy





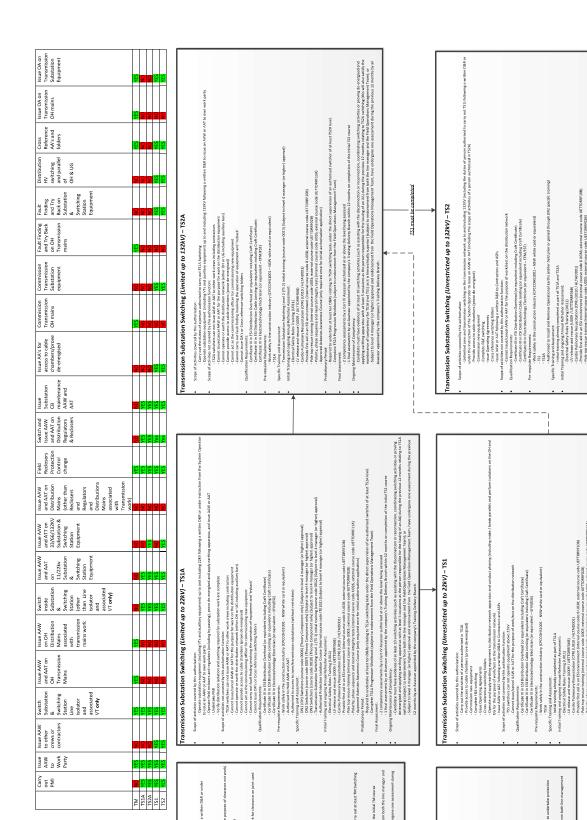




## 6.6 Authorisation Schedule 3

## Transmission Switching Authorisation Hierarchy

ransmission Mains Switching



rotection Mandatory Isolations (PMI)



Cuckelate math lever reference of a feature in the company of the

insy assessments by a Cert IV Assessor authorised at or above the level being assessed as common and an assessor appointed by the company's Training Delivery Branch within 12 months or assessor appointed by the company's Training Delivery Branch within 12 months or assessor appointed by the company.

## **Authorisation Schedule 4** 2.9

## **System Operator Authorisation**

# Authorisation for System Operators (Control Room)

- Scope of activities covered by this authorisation:
   Operate an Area Control and Deak within the Control Room;
   Use Supervisory Control and Deak Acquisition (SCADA) and associated computerised equipment systems.
  - Qualification Requirements:
- Pre-requisite fequirements:

   Work safety in the construction industry (CPCCOHS1001 NSW white card or equivalent)
   Specific Taining and Assessment: - An electrical qualification (Certificate III equivalent or higher)
- 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 ord stills in code to adequately identify, assess and control electrical safety hazards.
This may be undertaken through a variety of means such as but not limited to: public accomprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3" arry

references from a previous employer/supervisor, etc.



## **Authorisation Schedule 5** 8 9

## **Distribution Substation Access**

# Access distribution substations (including low voltage ancillary equipment)

- Scope of activities covered by this authorities of the state of the st

- Pre-requisite Requirements:

   Work safety in the construction industry (CPCCOH51001 NSW white card or equivalent).
  Specific Training and Assessment:
- An applicant must provide evidence of successful completion of the company's Distribution Substation Entry course (course course code DSUBE)
  - Initial Training and ongoing Annual Refresher Assessment:
     Electrical Safety Rules Training (U011)
     LV release and rescue (U009 / UETTDRRF06B)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001) Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B)
- Approved Asbestos Awareness Course (only required once for initial authorisation application)

## Zone/Transmission Substation Entry

# Access to zone/transmission substations – personal entry only

- Scope of activities covered by this authorisation:

   Carry coute for design of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to Carry cout the other of a person authorised to Access cone of a person authorised and demandiscent and carry the substance of the su

equivalent) in the manufacturing industry, building and

- Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent).
- Specific Training and Assessment:

  An applicant must provide evidence of successful completion of the company's Substation Entry course (course code: SUBE-PE) Initial Training and ongoing Annual Refrasher Assessment:

  Initial Training and ongoing Annual Refrasher Assessment:

   Electrical Suber Maler Training (UDI)

   UV release and rescue (Look) PETTD8RF068)

   LV release and rescue (Look) PETTD8RF068)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

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

- Scope of activities covered by this authorisation:

   Carry out the duke of a person authorised to Access distribution substations (including low voltage ancillary equipment); in addition to

   Carry out the duke of a person authorised to Access distribution substations in accordance with the Electrical Safety fules

   Access zone or transmission substation and transmission substation or switching station limited to the following:
- Visual inspection of station equipment
   Visual inspection of station equipment
   Civil maintenance, Construction statistics as fire systems, non-network electrical systems (lights, power) waste services, property maintenance, building services/repairs, etc.
  - Note: Any worksite demarcated from primary and/or secondary systems with physical barriers or exclusion zones may be deemed as non-invasive. Scope of activities not covered by this authorisation function:
    - Cannot supervise any work within an electrical station involving the construction, maintenance and testing of primary and/or secondary systems

# Qualification/Exp

- on Orgentate deductions.

  Includes the property of the property of the property of the property in the manufacturing industry, building and construction industry, energy industry, communications industry or equivalent.
- Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent), and

   Be employed in a rose that requires the ability to supervise non-invasive Work; and
   Individuals must be able to demonstrate sufficient supervisory and risk (dentification 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 ougsting Annual Refreshed Assessment:

  Exercise Stays Rules Training (1031) STAN TRAINING (1031)

   Un release and rescue (10059 / BETTD8RF06B)

   Cardio Pulmonary Resuscration (TRR) (1002) (HTAD001)

   Provide first and in an ESI environment (internal course code 8 U338; external course code UETTD8RF10B)

   Provide first and in an ESI environment (internal course code 8 U338; external course code UETTD8RF10B)
  - Approved Asbestos Awareness Course (only required once for initial authorisation application)

# Access to zone/transmission substations (without restriction)

- Scope of activities covered by this undirections:

  Scope of activities covered by this undirections to Access distribution substations (including low voltage ancillary equipment); in addition to

  Access and supervises any work activity in sone or transmission substations and transmission switching stations in accordance with the Electrical Safety Rudes.
  - Qualification/Experience Requirements:
     An Electrical qualification (Certificate III or higher)
- Pre-requisite Requirements:
  Pre-requisite Requirements:
   Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such
   Individuals must be able to demonstrate sufficient supervisory and risk identification experience, training, or a combination of both. The sufficiency of such
   Experience and our 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

Veg	Vegetation Management	Supplementary Vegetation Authorisations
Ā	Authorisation to carry out Tree Management Activities	Chipper Operator
•	State of actions control by have seventions:  - interroll, control of the sevention of the sevention of company (sevential total COT) - Application Customer behaviors: - interroll control of the sevential of the sevential control of the sevential	Store A state of the A the definition of the A the definition of the A th
	And the definition in crowded by the abstraction that have been assured to the abstraction of the abstractio	The request displacinities.     View request agriculture in the construction industry (OVCOIGIDI – NOW white cond     Specific Training and Assessment (Industries under Geometries may be recognised)     Specific Training and Assessment (Industries und Engineering     Assessment (Industries and Engineering and Industries and Engineering     Industries (Industries and Engineering     Interference and Engineering     Interference and Engineering     Interference and Engineering
•	Coff settlings in Loads harings or Coff settlings in Execution in Loads (1997)	House Table Transcription and the process of t
	Control and a second a second and a second a s	Organization code (ETTTR987108)     Organization (ETT
	Codes by American (Washington (19) (10) (11) (14) (10) (10) (10) (10) (10) (10) (10) (10	

# The broadest a chipper as a control of scoper/huditor Sope of privities toward by the untitantation covered by the unitantation covered by the unitantatio

## Ground Machinery Operator/Observor tops a stockness content by in advantage of the stockness of the stockne

## dalised Machinery Operator/Observer

Vegetation Control

š	Specialised Machinery Operator/Observer	<u>6</u>
	Scope of activities covered by this authorisation:  Operate or observe specialist vegetation control plant and machinery in accordance with the clearances specified within	
	Company Procedure GAM0063 Electrical Safety Requirements for Metwork Vegetation Control Scope of activities not covered by this authorisation function:	
	<ul> <li>Cannot operate or observe plant and machinery for any purpose other than specialist vegetation control</li> </ul>	
	Qualification Requirements: Confidence il le CC - Monomition Control (HICTODS 12) (Geometrian Monomition Controllant Seconds)	
	Pre-requisite Requirements:	
	<ul> <li>- Work safely in the construction industry (CPCCOHSI001 – NSW white card or equivalent)</li> </ul>	
	Specific Training and Assessment (equivalent units of competence may be recognised): - IIETTORE LAA Working softal year like planting a present as a new observing united.	
	- AHCCHM201A Apply chemicals under supervision;	
	- AHCARBZOZA Fell small trees;	
	- AHCARBZOSA Operate and maintain chainsaws;	
	- AHCMONISDAN Operate Machinery and Equipment;	
	- AHCPCMXD1A Recognice Plants;	
	- URENEEE 01A Apply OHS practices in the workplace;	
	- UETTDRELL3A Comply with environmental and incidental response procedures;	
	UETTORVICEA Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;	
	OF IDENTIFYING WAVEFUL AND INTERIOR CONTRIBUTED IN THE ASSISTANT OF THE AS	
	- UETTDRVC27A Monitor safety compliance for vegetation control work in an ESI environment;	
	<ul> <li>UETTDRVC31A Operate specialised plant and equipment at ground level near live electrical apparatus;</li> </ul>	
	<ul> <li>UETTDRVC32A Use specialised plant to cut vegetation above ground level near live electrical apparatus; and</li> </ul>	
	<ul> <li>- UETTDRVC33A Apply pruning techniques to vegetation control near live electrical apparatus.</li> </ul>	
	Initial Training and ongoing Annual Refrosher Assessment: - Electrical Safete Rules Training LIIII 11 (Supplemental Procedure GAANDOS3 - Electrical Safete Remissionants	
	(or Artwork Violation Central)	
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)	
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 UGSB; external course code UETTDRRF10B)</li> </ul>	
	Probationary Period:	
	<ul> <li>Applications make in the integer are least a ten most to we wighter the appropriate fewel of supervision is to be controlled in the integer of the appropriate fewel of supervision is to be controlled in the appropriate fewel of supervision is to be</li> </ul>	
	determined by risk assessment taking into consideration the specific task to be carried out and the level of ability	
_	demonstrated by the applicant.  Oranical Advisorance of Commercial	
	origining manimum or comprehensing the applicants have been sufficiently exposed to a variety of work/basks on the network to a Managers are required to confirm applicants have been sufficiently exposed to a variety of work/basks on the network to	
	maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards	

5	Ground Vegetation Control		EWP Operator/Obser
_	The second state of the se		Scope of activities covered by
_	support of extended by this administration: - Undertake or observe visetation control from the ground (groundline) in accordance with Company		- Undertake or obs Safoty Beniiremen
	Procedure GAMODG3 Electrical Safety Requirements for Network Vegetation Control	Ī	Scope of activities not cowery
	Scope of activities not covered by this authorisation function:		- Cannot undertake
	<ul> <li>Cannot undertake any other form of vegetation control than from the ground</li> </ul>	Ī	Qualification Requirements:
	Qualification Requirements:		- Certificate II in ES
	- Certificate II in ESI - Vegetation Control (UET20312) (Groundline Vegetation Controllers Stream)	İ	<ul> <li>Pre-requisite Requirements:</li> </ul>
	Pre-requisite Requirements: Historydalula the construition Industrui (CECCONSIDO) — NON white and or equipalents)		- Work safely in the
	Consider Testimon and Accommon formations and the Consideration in the Consideration and Accommon formation and the Consideration and Accommon formation and the Consideration and Accommon formation and the Consideration		onn.
_	Specific committee and the specific committee and the specific committee as a non-electrical worker.		specific Iraining and Assessin
	- AHCCHM201A Apply chemicals under supervision;		- AHCHIMZ01A Ap
	- AHCARB202A Fell small trees;		- AHCABB202A Fell
	- AHCARB205A Operate and maintain chainsaws;		- AHCARB20SA Ope
	- AHCPCM201A Recogniso Plants;		- AHCPCM201A Res
	- UEENEEE101A Apply OHS practices in the workplace;		- UEENEEE101A Ap
	<ul> <li>- UETTDRELL3A Comply with environmental and incidental response procedures;</li> </ul>		- UETTDREL13A Co
	<ul> <li>- UETTDRVC23A Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus;</li> </ul>		- UETTDRVC23A PIS
	<ul> <li>- UETTDRVC24A Assess vegetation and recommend control measures in an ESI Environment;</li> </ul>		- UETTDRVC24A As
	<ul> <li>- UETTDRVCZ6A Cut vegetation at ground level near live electrical apparatus;</li> </ul>		- UETTDRVC25A US
	<ul> <li>- DETTDRVCZ7A Monitor safety compliance for vegetation control work in an ESI environment; and</li> </ul>		- UETTDRVC26A Cu
	<ul> <li>- UETTDRVC33A Apply pruning techniques to vegetation control near live electrical apparatus.</li> </ul>		- UETTDRVC27A NA
	Initial Training and orgoing Annual Refresher Assessment:		- UETTDRVC33A Ap
	<ul> <li>Electrical Safety Rules Training (UD11) (Supplemented by Compony Procedure GAM0063 — Electrical Safety</li> </ul>	Ī	<ul> <li>Initial Training and ongoing A</li> </ul>
	Heguirensents for Network Degelstation London)		- Electrical Safety R
	Cardo Pumonary Resistation (Unit) Hilly Double		Requirements for A
	Devotestion we have the an art as terminated from the code a code of code of the code of t		- Cardio Pulmonary
	- Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker		- UETTDRRF038 Per
	authorised to carry out the relevant category of vegetation control being performed. The appropriate level of		- UETTDRRF088 Pwi
	supervision is to be determined by risk assessment taking into consideration the specific task to be carried out and	Ī	- Probationary Period:
	the level of ability demonstrated by the applicant.		- Applicants must h
	Orgoing Maintenance of Competency:		authorised to carry
	<ul> <li>Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the</li> </ul>		supervision is to be
	network to maintain phowiedge and/or skills in order to adequatery identity, assess and control electrical safety		level of ability dem
	hazards	Ī	<ul> <li>Ongoing Maintenance of Con</li> </ul>
			- Managers are red

srver	Š	Within Tree (Climbing)
by this authorisation: enseave wegestation control from an EVIP in accordance with Company Procedure GAMCOSS Bectrical enseave Vegestation Control		Scope of artivities covered by this authorisation - Undertake or observe vegetation co. Safety Requirements for Nerwork Veg
med by this authorisation function: be any other form of vegetation control than from an EMP		Scope of activities not covered by this authorisa - Cannot undertake arry other form of Chalification Box groundst-
ESI - Vegetation Control (UET20312) (Elevated Work Platform Vegetation Controllers Stream)		Certificate II in ESI – Vegetation Cort     Pre-requisite Requirements:
he construction industry (CPCOOHS3001 – NSW white card or equivalent) arize to operate a boom-type elevating work platform (boom length 13 metres or more) or equivalent		Work safely in the construction indu     TULICZOCSA Licence to operate a bo
sment (equivalent units of competence may be recognised): Norking sitely near live lettrical apparatus as a non-electrical worker; and chemicals, uniter sunevivian fast remitred).		Specific Training and Assessment (equivalent un UTTDRILLAA Working safely near li AHCOMADIA Annis rhemisals under
all small trees:	_	- AHCARBOOA Fell small trees; - AHCARBOOA Undertake standard of
Recognise Plants;	_	- AHCARBZOSA Operate and maintain
Apply Ons practices in the workpiece; Comply with environmental and incidental response procedures;	_	UEENEELDIA Apply OHS practices in
Plan for the removal of vegetation up to vegetation exclusion zone near live electrical apparatus; Assess seamed store and successment control materials in an ESI Engineering.	_	UETTDRELISA Comply with emirons     UETTDRACO34 The climbins technism
Use EWP to cut above ground vegetation near live electrical apparatus;	_	- UETTDRVC23A Plan for the removal
Out vegetation at ground level near live electrical apparatus;  Nonitor safety compliance for vegetation control work in an ESI erroronment; and	_	- UETTDRVC2AA Assess vegetation an:     - UETTDRVC26A Cut vegetation at gro
Apply pruning techniques to vegetation control near live electrical apparatus.  Annual Refinisher Assessment:	_	DETTDRVC274 Monitor safety compl     DETTDRVC334 Apoly pruning technic
Rules Training (U011) (Supplemented by Company Procedure GAMOD63 – Electrical Sojety Network Venetralies Control		UETTDRVC34A Undertake release an Initial Trainine and oneoine Annual Refresher As
ary Resuscitation (CPR) (U010 / HLTAID001)	_	- Electrical Safety Rules Training (UD11
I in an ESI environment (internal course code 8 UG38; external course code UETTDRRF10B) Perform EWP Rescue	_	for Network Vegetation Control) - Cardio Pulmonary Resuscitation (CPF
Perform EWP controlled descent escape	_	Provide first aid in an ESI environme     UETTDRVC34A Undertake release an
t have logged at least 140 hours of vegetation control work under the instruction of a worker	•	Probationary Period:
19 You can recent company or registration counts are proportional to appropriate revenue the determined by risk assessment taking into consideration the specific task to be carried out and the important by the amilitary.	_	carry out the relevant category of wig
ompetency:	_	demonstrated by the applicant.
equired to confirm applicants have been sufficiently exposed to a variety of work/basks on the	•	Ongoing Maintenance of Competency:
tain knowledge and/or skills in order to adequately identify, assess and control electrical safety	-	<ul> <li>Managers are required to confirm at</li> </ul>

Scape of activities covered by this authorisation:
<ul> <li>UnderTake or observe vegetation control from within a free in accordance with Company Procedure GAAAUUSS E Safety Requirements for Network Vegetation Control</li> </ul>
Scope of activities not covered by this authorisation function: - Cannot undertake zero other form of vegetation control than from within a tree
Qualification Requirements:  - Certificate in ESI – Visientation Control (UETX0312) (Nethin Tree Idimbinal Visientation Controllers Stream)
Pre-requisite Requirements: Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
<ul> <li>"LIUZZXXX Lierze to operate a bountype relevange voor platform floorin length 11 metres or more) or equivalent rainfra and Avastraent (equivalent units of competence may be recognised):         <ul> <li>-UTITRELLAA Working safely near live electrical apparatus as a non-electrical worker;</li> </ul> </li> </ul>
- ANTCARROLA Apply membras under supervision (as required); - ANTCARROLA Independe streets; - ANTCARROLA Understate streets;
- AHCARBZOSA Operate and maintain chainsaws;
- JANCH, MALLIA RECOgnies Prants;     - UEENEEE101A Apply OHS practices in the workplace;
<ul> <li>UFTTDRELISA Comply with remironmental and incidental response procedures;</li> <li>UFTTDRECIA Use climbing techniques to cut sweet attorn near live electrical apparatus.</li> </ul>
<ul> <li>UETIDRIVICABA Plan for the removal of vegetation up to vegetation exclusion zone near five electrical apparatus;</li> <li>IETIDRIVICAB Scores vegetation and recommend control measures in an SSI Engineering.</li> </ul>
- UETTORVOZAR Cut vegetation at ground level near live electrical apparatus;
<ul> <li>- DETLIGNCESTA MORNING SAFRY COMPANIES FOR VERY ABOUT INCIDENCE AND THE TEXT OF THIS TEXT OF THE TEXT</li></ul>
Initial Training and ongoing Annual Refresher Assessment: - Enertical Safete Rater Training LUD31 (Sexualemental to Common Procedure GAARORS — Electrical Sofete Remark
(an Network Vegetation Control) - Cardo Pulmanany Researctisation (CPR) (U010 / HLTAID001)
<ul> <li>Pronide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRR5108)</li> <li>UETTDRVC3AA Undertake release and rescue from a tree near live electrical apparatus (entilence of successful co</li> </ul>
Probationary Period: - Applicants must have logged at least 140 hours of vegetation control work under the instruction of a worker auth-
clarity out the redward adregacy of weightlaten control being performed. The appropriate lewe of supervation is to a determined by risk assessment taking into consideration the specific task to be carried out and the level of ability demonstrated by the applicant.
Organis Maintenance of Competency:  - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/lasks on the net

ı					
	Certificate II ESI – Powerline Vegetation Control Pathways	Unit of competence	Ground line vegetation controllers	EWP vegetation controllers	Within tree (climbing) vegetation controllers
sti	Apply Occupational Health Safety regulations, codes and practices in the workplace	UEENEEE101A	^	,	/
letat nU e	Comply with sustainability, environmental and incidental response policies and procedures	UETTDREL13A	>	>	^
COL	Working safely near live electrical apparatus as a non-electrical worker	UETTDREL14A	>	>	>
	Operate and maintain chainsaws	AHCARB205A	`	>	1
цис	Plan the removal of vegetation up to vegetation exclusion zone near live electrical apparatus	UETTDRVC23A	^	^	/
0	Monitor safety compliance of vegetation control work in an ESI environment	UETTDRVC27A	/	^	1
	Licence to operate a boom-type elevating work platform (boom length 11 metres or more)	TLILIC2005A		,	
	Fell Small Trees	AHCARB202A	>		
	Apply chemicals under supervision	AHCCHM201A	^		
s	Undertake standard climbing techniques	AHCARB204A			1
iinU	Use climbing techniques to cut vegetation above ground near live electrical apparatus	UETTDRVC21A			1
	Use elevated platform to cut vegetation above ground level near live electrical apparatus	UETTDRVC25A		^	
	Cut vegetation at ground level near live electrical apparatus	UETTDRVC26A	,		
	Apply pruning techniques to vegetation control near live electrical apparatus	UETTDRVC33A	^	^	1
ľ					

<u>  ಕಿ</u>	Close Approach Vegetation Control - Ground Vegetation Control
	Scope of activities covered by this authorisation:
	<ul> <li>- Undertaile or observe close approach vegetation control from the ground (groundline) in accordance with Company Procedure GAWIDDS3 Electrical Safety Requirements for Network Vegetation Control</li> </ul>
	Scope of activities not covered by this authorisation function: - Cannot undertake any other form of close approach vegetation control than from the ground
	Qualification Requirements: - Cartificate II in ESI = Vegetation Control (UET20312) (Groundline Vegetation Controllers Stream)
	Pre-reguisde Requirements:  - Verole safely in the construction industry (COCCONS100) – NSW white cand or equivalent); and  - Verole safely in the construction industry (COCCONS100) – NSW white cand or equivalent); and  - Hold a current authorisation for Veygration Centrol - Coround Veygration Control  - Hold a current authorisation for Veygration Centrol - Coround Veygration Control
	Specific Training and Assessment (equivalent units of competence may be recognised):  - Company approved Close Approach Vegetatrion Control (CAVIC) Course
	Including Juning Hospital States (Juning Hospital States) (JUDI) Supplemented by Company Procedure GAMODGS - Electrical Sofety Requirements for Henrich Mayerition Control)  - Electrical States (July 1984) Telegraphy (JUDI) Supplemented by Company Procedure GAMODGS - Electrical Sofety Requirements for Henrich Company Procedure (JUDI) Supplemented by Company Procedure (JUDI) Supplemented (JUDI) Supplement
	Probationsy Preds.  - Opplication must been bapted at least 140 hours of close approach registration control work under the instruction of a worker authorised to carry out the relevant and registration control language definement language interest. The preparation is not support definement approaches the determined by nisk assurance taking into consideration in particular case and the level of public demonstrated by the accidence.

Close Approach Vegetation Control (CAVC)

	Scope of activities covered by this authorisation:
	<ul> <li>Undertake or observe close approach vegetation control from an EWP in accordance with Company Procedure GAM0063 Electrical Safety Requirements</li> </ul>
	for Network Vegetation Control
	Scope of activities not covered by this authorisation function:
	- Cannot undertake any other form of close approach vegetation control than from an EWP
	Qualification Requirements:
	- Certificate II in ESI – Vegetation Control (UET20312) (Elevated Work Platform Vegetation Controllers Stream)
	Pre-requisite Requirements:
	<ul> <li>Work safety in the construction industry (CPCCOHSL001 – NSW white card or equivalent);</li> </ul>
	- TULIC2005A Licence to operate a boom-type elevating work platform (boom length 11 metres or more) or Equivalent; and
	- Hold a current authorisation for Vegetation Control - EWP Operator/Observer
	Specific Training and Assessment (equivalent units of competence may be recognised):
	- Company approved Close Approach Vegetation Control (CAVC) Course
	Initial Training and orgoing Annual Refresher Assessment:
	<ul> <li>Electrical Safety Rules Training (U011) (Supplemented by Company Procedure GAM5063 – Electrical Safety Requirements for Network Vegetation Control)</li> </ul>
	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
	<ul> <li>Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF108)</li> </ul>
	- UETTDRRF03B Perform EWP Rescue
	- UETTDRRF088 Perform EWP controlled descent escape
	Probationary Period:
	<ul> <li>Applicants must have logged at least 140 hours of close approach vegetation control work under the instruction of a worker authorised to carry out the</li> </ul>
	relevant catagory of vagetation 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 Compatency:
	<ul> <li>- Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or</li> </ul>
	skills in order to adequately identify, assess and control electrical safety hazards; and
	- Company approved CAVC refresher

Close Approach Vegetation Control - EWP Operator/Observer



## 6 10 Authorisation Schedule 7

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

## Authorisation to carry out Overhead Line Inspection and Ground Line Inspection (Carry Out OLI/GLI) and Teachers are covered by Manufaction that the company is placed in account with Company statistics when the requirements of MAI 000.1—Pole and Company accordance with the requirements of MAI 000.1—Pole and Company accordance with Company Standard MAI 000.1—Pole and Line to specials and if requirement receivants of wood poles from an elevated work platform in accordance with Company Standard MAI 000.1—Pole and Line to specials and if requirement receivants are when the company accordance with Company Standard MAI 000.1—Pole and Line Line to specials and or requirement receivants. Outside Standard Company accordance with Company accordance with Company Standard MAI 000.1—Pole and Line Line to special may be company to accordance with Company Standard MAI 000.1—Pole and Line Company Com Scope of architect correct by the submiring in selection environment; and - Cash range of architect correct by the submiring limited in a deal-top environment; and - Cash range and of restably defects on the company's overhead network in accordance with Company Standard MMI 0001.—Pible and Line Hispectic - Cash range and covered by this submiring information function. Scope and architectured procedures. Scope and returned procedures. - Cannot carry on a cash respective for the company's overhead network in the cash range of the cash range o Scope of archives covered by the authoristics in a field based environment; and classified you covered and morections in a field based environment; and classified and/or retainful professor to expensive sources or expensive and professor to a finite and professor and and interior processor and fundament processor fundament processor and interior and processor and fundament processor for the company's pole in accordance with Company Standard MAM 0001 – bele and line Committee classified or extensivity ground in selection the company's pole in accordance with Company Standard MAM 0001 – bele and line Committee classified or extensivity ground in selection the company's pole in accordance with Company Standard MAM 0001 – bele and line Authorisation to carry out Desktop Overhead Line Inspection (Carry Out OLI) International Reference ... that Safety, Autor Safety (1900) (41/1000) (1900) that Safety (1900) (41/1000) (41/1000) (41/1000) onder travel (1909) (41/1000) (41/1000) (41/1000) (41/1000) onder travel (1909) (41/1000) (41/1000) (41/1000) (41/1000) onder travel (1909) (41/1000) - this lateration the requirement of Company Standard VMM 0001 – Pole and Line Inspection and Teal initial initial interaction the requirement of Company Standard VMM 0004 – Pole Summer Bushire Inspection in this requirement of Company Standard VMM 0004 – Pole Summer Bushire Inspection . If the analysis of our properties of the Standard VMM 0004 – Pole Summer Bushire Inspection. in in the requirements of Company Standard MMI 0001 – Pole and Line Inspection and Trea the requirements of Company Standard MMI 0034 – Pre-Summer Bushfire Inspections Authorisation to carry out Overhead Line Inspection (Carry Out OLI) the construction industry (CPCCOHS1001 – NSW white card or equivalent) Inspection and Treatment procedures. Qualification Requirements: - UET/002.2 - Certificate II in ES1 - Asset Inspection (or equivalent) Pre-requisite Requirements: - Work safely in the construction industry (PCCONSISO Specific Formal Instruction

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

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

province to the state of publication in the company's wooden poles in accordance with Company Standard MM R001 – Pole and the inspection and Treatment proce Carry of controller in repetation for unknown.

Steps of Existing and covered by the interaction for unknown.

Carry and covered by the interactions in a finish asset environment;

Carry and controller the interactions in a finish asset environment;

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Carry and creative for an order company's personal interaction and Treatment process.

Qualification Requirements:
- An electrical qualification (Certificate III equivalent or higher)
Pre-requisite Requirements:

Plant Near O Specific Training and A Initial Instru

Specific Training and Assessment of Company Standard MM 1000 1 - Folk and the Inspection and Treatment Procedures; and "It shall be requirement of Company Standard MM 1000 1 - Folk and the Institute Course code POLEI DRNS) Inhial Training in the requirement of pale of superiors of Course Code POLEI DRNS) Inhial Training in the requirement of pale of superiors of Code of Polei DRNS (PRINCIP). The reduces not receive (DRNS COMPAN) Inhial Training Code of POLEI DRNS (PRINCIP). Code of Polei DRNS (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). Code of Polei DRNS (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). Code of POLEI DRNS (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). COMPANY (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). COMPANY (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). COMPANY (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP) IN TRAINING (PRINCIP). COMPANY (PRINCIP) IN TRAINING (PRI

control electrical safety hazards; and ave carried out pole-top (EWP) inspecti atment procedures



nder the direct supervision of a person authorised to carry out Overhead Une inspection and Ground Une inspection (Carry Out OU/GU) and a a log book detailing OU/GU inspections across a range of network apparatus to the satisfaction of the OU/GU Manager

 - Intial instruction in the requirements of Company Sandard MMI 0001 - Fiele and Line Inspection and Treat-Intial instruction in the requirements of Company Sandard MMI 0094 - Pre-Sammer Beatine Inspections Initial Training and regular phroat Architecture Assessment.
 - Exercised Sites Publish Training (LOTI) Electrical Sofety Ruse Training (1011)
Liv felosa mence (1009) (ETIDBORGO)
From the Training mence (1009) (FILMDOD)
From the Training metency. protonde annual evidence of accreditation signed by the OU/GII Manager specifically endorsing they have Been formally briefed on any relevant changes or amendments to company standards/procedures

## **6.11** Authorisation Schedule 8

## Service and Metering Authorisation Hierarchy

	ork Qualifice		Certificate III in Electrotec	Certificate III in ESI – Pov	Certificate III in ESI = Poy	Overhead (or equivalent)	SetoN		★#-applicants must hold					yer/	coreditation	
Carry out Trade Assistance (Non-Electrically Qualified) – Class 2X	<ul> <li>Stop of atteities covered by this authorisation:</li></ul>	Note: This class allows non-electrically qualified personnel to be registered with the ASP Scheme in accordance with the Scheme Rules.  Scope of achildren not covered by this authorisation function:	- Cannot carry out 2A,28, 2C or 2D work	Cualification Requirements: N     Pre-require Requirements:	<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent);</li> </ul>	<ul> <li>Specific Training and Assessment:</li> <li>UETIDREI.14A - Working safely near live electrical apparatus as a non-electrical worker (or equivalent)</li> </ul>	Initial Training and ongoing Annual Refrester Assessment:     Elegand College Annual Refrester Assessment:	- Cretchian Sherty Wilder County (UCTY) (PREVIOUS) - Ur release and rescue (UCDO) (UCTY) (UCTY) (UCTY)	- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)	<ul> <li>Provide first aid in an ESI ervironment (internal course code 8 UG38); external course code UETTDRRF108)</li> <li>Pole top rescue training (internal course code UG03); external course code UETTDRRF028)</li> </ul>	- Approved Asbestos Awareness Course (only required once for initial authorisation application)	Organie Maintenance of Competenting:     Organie Management of control of the competent of work haste on the network to maintain homelastic and for still in order to	adequately identify, assess and control electrical safety hazards.	This may be undertaken through a workly or means such as but not limited to having a competentive oversight over work schedules/programs, regular workspace and onske interactions, documenting astey touloox talks, collaring workplace forms and other documented evidence, independent 3 <sup>o</sup> party references from a previous employed/supervisor, etc.	ry man, a.m. Note: Authorisation for employees of an ASP company must only be maintained while the accreditation of the ASP company remains current. If the ASP company accreditation	expires, the authorisation of all employees must be suspended.

Disconnect and Reconnect - Class 2A

Non-electrically qualified = 2X	N/A	A/N	A/A
Install Type 5 and 6 metering – Class 2D	`		
Work on overhead service conductors— Class 2C	#/		*
Work on underground service conductors— Class 2B	#,	*	
Disconnect and Reconnect – Class 2A	#/	#,	#/
Cualification Requirements	Certificate III in Electrotechnology Electrician (or equivalent)	Certificate III in ESI – Power Systems – Distribution Cable Jointing (or equivalent)	Dertificate III in ESI – Power Systems – Distribution Overhead (or equivalent)

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Non-electrically qualified – 2X	Fled	in in	<b>1</b>	D D D D D D D D D D D D D D D D D D D	As UE Pre-	OE OE	`		`	,
Install Type 5 and 6 metering— Class 2D	,	`	,	`			,	,		`
Work on overhead service conductors – Class 2C	٠	*	٨	,	,		^			,
Work on underground service conductors – Class 2B	*	*	,	`			*			,
Disconnect and Reconnect - Class 2A	٨	*	٨	,			^	٨		,
Intial Training Requiement	savour Energy Electrical Safety Rules training	TDRRF06B Low voltage release and rescue mal course code 8U009)	AID001 Perform CPR rnal course code 8U010)	TDRRF11A Successfully complete test and pletion of polarity, phase sequence and neutral irrity tests mai course code 8U026)	TDRRF02B pole top rescue training including alimbing safety inspections of poles, both timber steel (internal course code 8U003)	TDRRF08B EWP Emergency Escape (CDD) mal course code 3 U006);	TDRRF10B First Ald in an ESI Environment	TDREL16A Working safely near live electrical aratus	TDREL14A Working safely near live electrical aratus as a non-electrical worker	oved asbestos awareness training

tal Training Requirement	Disconnect and Reconnect – Class 2	Work on undergroun service conductors Class 2B	Work on overhead service conductors Class 2C	lnstall Type 5 and 6 metering – Class 2D	Mon-electrically qualified – 2X
ergy Electrical Safety Rules training	`	`	`	`	`
B Low voltage release and rescue e code 8U009)	`	`	*	`	,
	`	•	1	,	*
A Successfully complete test and odarity, phase sequence and neutral	`	`	,	`	
B pole top rescue training including sfety inspections of poles, both timber mal course code 8U003)			`		As Required
B EMP Emergency Escape (CDD) e code 8 U006);					
B First Aid in an ESI Environment	,	`	^	,	>
A Working safely near live electrical	`			`	
A Working safely near live electrical non-electrical worker					,
astos awareness training	`	`	,	,	,

Inital Training Requirement	Disconnect and Reconnect - Class	Work on undergrous service conductors Class 2B	Work on overhead service conductors Class 2C	Install Type 5 and I —grinelem GS seelO	Non-electrically qualified = 2X
Endeavour Energy Electrical Safety Rules training	`	`	`	`	`
UETTDRRF66B Low voltage release and rescue (internal course code 8U003)	`	`	`	`	`
HLTAID001 Perform CPR (internal course code 8U010)	*	`	,	*	1
UETTDRRF11A Successfully complete test and completion of polarity, phase sequence and neutral integrity tests (internal course code 8U026)	`	`	`	`	
UETTDRREG2B pole top rescue training including pre-climbing safety inspections of poles, both timber and steel (internal course code 8U003)			`		As Required
UETTDRRF08B EWP Emergency Escape (CDD) (internal course code 8 U008);					
UETTDRRF10B First Aid in an ESI Environment	>	*	^	A	1
UETTDREL16A Working safely near live electrical apparatus	`			`	
UETTDREL14A Working safely near live electrical apparatus as a non-electrical worker					`
Approved asbestos awareness training	`	`	,	,	,

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Class 2	
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Work on underground service conductors – Class 2B

Scope of activities covered by this authorisation:
<ul> <li>Remove and replace an Endeavour Energy security seal;</li> </ul>
<ul> <li>Install and connect overhead service lines to the point of common coupling:</li> </ul>
<ul> <li>Connect underground service conductors to the overhead distribution network and install underground</li> </ul>
(note: a person authorised to Work on underground service conductors – Class 28 is required to install the
- Relocate Americale an existing overhead service line and restore supply on completion:

` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	As Required	,							ulating glores; an overhead point of attachment); and				upervisor Certificate – Electrical or an Electric					and	slent); ar	
`		`	4						voltage ins				Zualified Si					quivalent);	: (or equiva	
	(internal course code U026)  UETTDRRF02B pole top rescue training including pre-climbing safety inspections of poles, both timber	and steel (internal course code U003) UETTDRRF10B First Aid in an ESI Environment					<b>→</b>	a	influencement by this subtriction:  **Lead more interest in Executive Corporation Control Cont	tion:		nts: - 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 Electric Contraction Licence endorsed with a Q	ology Electrician (or equivalent);	- Certificate II in ESI – Power Systems – Distribution Cable, Jointing (or equivalent); or - Certificate III in ESI – Power Systems – Distribution Overhead (or equivalent)	site Requirements:  Work safely in the construction industry (CPCCOHS1101 – NSW white card or equivalent)	ment: INTERTIBET GA. Working collaborator line altertrical amazen te los aministants:		- UETTORISGOA – Install and replace power system meters and associated Equipment (or equivalent); or - UFENEEGIT1A install, setup and commission interval metering (or equivalent)	nts: - UETHDSGGA – Install and replace power system meters and associated Equipment (or equivalent) - Manual Refresher Assessment:
	As Required		`		`	,	netall Tune 5 and 6 metering – Clace 2D	ng – Class	citivities covered by this authorisation:  Remove and register an Endewour Energy security seal;  Install and remove metering equipment for meter types,  Liber energed of Work for active to apply temporary!  Disconnect and reconnect of the installation (including)	<ul> <li>Energise new installations.</li> <li>Scope of activities not covered by this authorisation function:</li> </ul>		III in Electrotech	<ul> <li>Additionally, to be eligible for authori Contractor Licence endorsed with a Q</li> </ul>	e III in Electrotech	III in ESI – Power	tion industry (CPC	TCA , Morting on	142A - Apply envir	- UETTDRIS	<ul> <li>Internal Applicants:</li> <li>UETTDRISGOA – Install and rep</li> <li>Unitial Training and ongoing Annual Refresher Assessment;</li> </ul>
`			`	`		,	meteri.	meterii	by this auth place an Enr ove meterin d LV work p reconnect.	stallations.	of 28 or 20 5:	onts: - Certificati	- Additional Contractor	nts: - Certificat	- Certificat	the construc	sment: ants:	- UEENEEK		ints: - UETTDRIS ; Annual Rel
`	`		`			,	and 6	and 6	ies covered all and rem ise energise connect and	<ul> <li>Energise new installations.</li> <li>ctivities not covered by this</li> </ul>	Cannot carry out 28 or 2C on Requirements:	External Applicants: Ce		- Internal Applicants: - Ce		equirement rk safely in t	ining and Assessmer External Applicants:		1	Internal Applicants: UR - UR ning and ongoing An
`			`			,	T any	ype	Scope of activities covered by this authorisation:  Remove and replace an Endeavour Er  Install and remove metering equipme  Unities enregioned by work practices to  Disconnect and reconnect of the Install	. Ene	- Cannot carry out Qualification Requirements:	mq.		· Inte		Pre-requisite Requirements: - Work safely in the	Specific Training and Assessment: - External Applicants:		3	. brut -
`			`	`		,	Inctal	nsta		š	<i>a</i>									3
arity, phase sequence and neutral ode 8U026)	pole top rescue training including try inspections of poles, both timber al course code 8U003)	EMP Emergency Escape (CDD) code 8 U006):	First Aid in an ESI Environment	Working safely near live electrical	Working safely near live electrical on-electrical worker	os awareness training							pole from 3m above ground level rel up to 3m from ground level);		from overhead conductors); and					



## **Authorisation Schedule 9** 6.12

## Overhead Plant

# Authorisation to Operate or Observe Plant Near Overhead Electrical Apparatus

- Scope of activities covered by this authorisation
- Operate plant up to the safe approach distances provided in Table A Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook, whilst an authorised safety observer is in place; and - Observer plant that is operated by an authorised operator up to the size approach distances provided in Table A – Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook.
  - - Scope of activities not covered by this authorisation function:
- Cannot carry out or observe powered excavation work near the network Qualification Requirements: Nil
  - Pre-requisite Requirement
- Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Training and Assessment:
- Work near overhead electrical apparatus training course in accordance with Company Procedure (Health & Safety)
   GSY 0031 Operating or Observing Plant Near Overhead Electrical Apparatus (internatiourse code & 10.021); or
   UCIT DRELIAA Working safety haral live electrical apparatus as a non-electrical worker for equivalent)
  - Initial Training and ongoing Annual Refresher Assessment:
    - Electrical Safety Rules Training (U011)
    - LV release and rescue (U009 / UETTDRRF06B)
- Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
  - Ongoing Maintenance of Competency:
- 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 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 other documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.

## Excavation

# Authorisation to Observe Excavation Work Near the Network

- Scope of activities covered by this authorisation:
- Observe powered excavation activities carried out by an authorised operator in accordance with the Electrical Safety Rules Handbook. Scope of activities not covered by this authorisation function:

  - Cannot <u>carry out</u> 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:
- Electrical Safety Rules Training (U011)
- RIICCM202D Identify, Locate and Protect Underground Services (or equivalent) Initial Training and ongoing Annual Refresher Assessment
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001) - LV release and rescue (U009 / UETTDRRF06B)
- Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) Ongoing Maintenance of Competency:
- This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/ - 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.
  - programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other

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

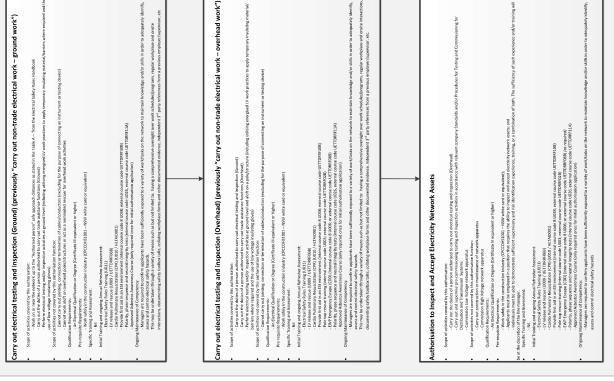
# Authorisation to Carry Out Excavation Work Near the Network

- Scope of activities covered by this authorisation:
- Observe and carry out powered excavation activities carried out by an authorised operator In accordance with the Electrical Safety Rules Handbook.
  - Cannot operate or observe plant near overhead electrical apparatus Qualification Requirements: Nil Scope of activities not covered by this authorisation function:
- Pre-requisite Requirements:
- Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
  - Specific Training and Assessment
- 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 - RIICCM202D Identify, Locate and Protect Underground Services (or equivalent); and
  - 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)
- Provide first aid in an ESI environment (internal course code 8 U038; external course code UETTDRRF10B) - Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
- Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain Ongoing Maintenance of Competency:
- 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 knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.
  - - documented evidence, independent 3<sup>rd</sup> party references from a previous employer/supervisor, etc.



# 6.13 Authorisation Schedule 10

## Electrical Testing and Inspection Stream (Engineers/Technicians/Inspectors) Carry out trade assistance functions (Overhead) (previously "carry out non-electrical work – overhead work") Carry out trade assistance functions (Ground) (previously "carry out non-electrical work – ground work") Work on or met her mendo, on this "Automotive proof a light datases as stated or in the 1- or ment destructed sizery light election. Verk on or met her mendo, on this "Automotive proof a light datases as stated or in the 1- or the stated sizery light election. Or to Calman and several colorium, parks assurance profession, or the stated by the stated or immediate classification and the stated or the stat Stope of activations consequely assubtractions to carry out tools assistance functions (ground) - Carry out the delies of a person authorized to carry out tools assistance functions (ground) - Carry out more external avects associated with the company) revented on overhead structures into - marketing struct (hersitation of algority carry out to ground out to carry ou Non-Electrical Trade Qualified





## Distribution Substations

# Construct and Maintain Distribution Substation Equipment and Connection Work • You or detailmine severed by his American proof and a provide interest a street in the 1984 A - from the literate shelpy fluid buildook • You or or experience or the severed and the severed of th

## Cable Jointing Stream

Construct and maintain UG mains - Distribution

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Study or activities curving by the administration.	<ul> <li>- Wind not not the feetback up to the "Linderd percon" shaped distincts as stated in the Table A - from the Dectrical Safety falled Handbook - As a a normalized rescue for soorback activities (Linderding New Up percola) illustracipators. The Ass a normalized rescue for soorback activities (Linderding New Up percola) illustracipators and constructed in control activities and extending calculation as to the Association substantiaties and dispatch percola in an artificial percola in the Association and Control activities and the Association in Association and Control activities are also activities and percola in a control activities and control activities and control activities are also activities and the Association and Control activities are also activities and activities are activities and activities and activities are activities and activities and activities are activities and activities are activities and activities are activities and activities and activities are activities and activities are activities and activities are activities and activities and activities and activities are activities and activities are activities and activities and activities are activities and activities and activities are activities and activities are activities and activities and activities are activities and activities and activities are activities and activities are ac</li></ul>	<ul> <li>Carry out all pointing and emination of the distillation that has a considerable asset (polymetr's and paper insulated cables rated at rounnial vortigate, 23W, 12 NM, 11W, then we weights insulated (DSMGA) at grant feeter on a pel.</li> <li>Carry out angeground stowns work including britalistics, maintenance, testing and connection work on customer installation (perceboards, pillars, etc.)</li> <li>Carry out 24 and 25 service work including britalistics, maintenance, testing and connection work on customer installation (perceboards, pillars, etc.)</li> </ul>	Preference interpretation in the properties of t	switching activity) - Act as the observer for excavation work near the network (distribution and transmission)	Operate and observe plant near controlled execution apparatuse of distribution and transmissional - Access to Restribute New Manner (marked by weaking by weaking a validity equipment) Soop of Accessive not consent by this humanistic historia.	- Cannot perform exergised connection and disconnection of QLI V cabes and associated equipment - Cannot any out energised connection and disconnection of QLI V cabes and associated equipment - Cannot carry out energisted coverhal linework practice (Linew Village line Linework) - Cannot carry out construction or materiated or linemosistion assists.	Qualitation Repairments:	Perception Requirement.  - Work in they have been breather (PCCCO151001 – NSW white card or equivalent) Specific Training and Assessment:  - Man description of the contraction industry (PCCCO151001 – NSW white card or equivalent)	the first part option it was the first recovered to the first part of the first part	Chipper September 1 Complete S	Manages required to commande that here examined to proced to a very the excitation of the retwest to minima interveign and or stills in no other to assessable should, second or control sectoral selection and value. The manages were the second or control sectoral selection and value. The manages were except the second or control sectoral selection and value. The manages were except the second or control sectoral se

## Construct and maintain UG mains - Transmission

<ul> <li>Carry out the duties of a person authorised to Construct and maintain UG Mains - Distribution</li> </ul>
- Construct and maintain UG Transmission mains and apparatus
<ul> <li>Carry out cable jointing and termination work on overhead transmission structures carrying voltages up to and including 132kV</li> </ul>
Scope of activities not covered by this authorisation function:
- Cannot construct and maintain OH mains
- Cannot carry out enengised overhead linework practices (Low Voltage Live Linework)
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 attainment
in Distribution cable jointing); or
- Craft certificate in cable jointing.
Pre-requisite Requirements:
<ul> <li>Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)</li> </ul>
Specific Training and Assessment:
₹.
Initial Training and ongoing Annual Refresher Assessment:
- Electrical Safety Rules Training (U011)
- LV release and rescue (U009 / UETTDRRFGSB)
- Cardio Pulmonary Resuscitation (CPR) (U010 / HLTAID001)
<ul> <li>Provide first aid in an ESI environment (internal course code 8 UG38); external course code UETTDRRF108)</li> </ul>
<ul> <li>Pole top rescue training (internal course code U003; external course code UETTDRRF028)</li> </ul>
- EWP Emergency Escape (CDD) (internal course code & U006; or external course code UETTDRRF088) (as required)
<ul> <li>Polarity, phase sequence and meutral integrity tests (internal course code UO26, external course code UETTDRRF11A)</li> </ul>
- Approved Asbestos Awareness Course
Probationary Period:
- Managers confirm applicants gain sufficient exposure to transmission cable jointing activities ranging in type and complexity under the direct supervision of a
person authorised as a Cable Jointer (Transmission) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control adartical safety because (Proposition from the northalineary notice) for homeometrical safety because of a Cable Jointer (Transmission) is at the discretion of transmission
line management)
Ongoing Maintenance of Competency:
<ul> <li>Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in</li> </ul>
order to adequately identify, assess and control electrical safety hazards.
This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular
workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3 <sup>rd</sup> party

## Linework Stream

Construct and maintain OH mains - Distribution

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<b>→</b>
instruct and maintain OH Mains - Transmission
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<b>→</b>

## Construct and maintain OH Mains – Transmission Towers

<ul> <li>Carry out line work and associated construction/maintenance activities on steel lattice towers carrying voltages up to and including 132kV.</li> </ul>
Scope of activities not covered by this authorisation function:
- Cannot construct and maintain US mains
- Cannot carry out energised overthead linework practices (Low Voltage Live Linework)
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 compatencies required to be eligible for a statement of attainment in Distribution overhead); or
- Craft certificate in Linework.
Pra-raquiste Paquirements:
- Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent)
- High Risk Work Likence for Basic Rigging (CPCCLRG3001A - Licence to perform rigging basic level)
Specific Training and Assessment:
₩.
Initial Training and orgoing Annual Refresher Assessment:
- Electrical Safety Roles Training (MOT1)
- LV release and rescue (U009 / UETTDRROSB)
- Cardio Pulmorary Resuscitation (CPR) (U010 / HLTAID001)
- Provide first aid in an ESI environment (Internal course code 8 UG38) external course code UETTDRRF108)
- Pole top rescue training (internal course code U003; external course code UETTDRRF028)
- EWP Emergency Sacape (CDD) (internal course code 8 U006, or external course code UETDRR/088)
- Perform tower rescue (internal course code 8 U007; external course code UETTORRF048)
- Polarity, phase sequence and neutral integrity tests (internal course code UQZ6, external course code UETTDRR51JA)
- Approved Asbestos Awareness Course
Probationary Period:
- Nanagers confirm applicants gain sufficient exposure to transmission tower activities ranging in type and complexity under the direct supervision of a person authorised as a Lineworker
(Transmission Tower) in order to develop the necessary technical knowledge / skills to adequately identify, assess and control electrical safety hazards. (Progression from the probastionary
period to become authorised as a Lineworker (Transmission Tower) is at the discretion of transmission line management)
Ongoing Maintenance of Competency:
<ul> <li>Managers are required to confirm applicants have been sufficiently exposed to a variety of work/basks on the network to maintain knowledge and/or skills in order to adequately identify.</li> </ul>
assess and control electrical safety hazards.
The control of the co



## Communication Technicians

## Install, Maintain and Test Communications Equipment on or Near the Network (Ground) Stopp of articular cover the New annexion of succession of

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

- - dustry (CPCCOHS1001 NSW white-Work safely in the construction Indu
    - Work safely in the company
    Specific Training and Assessment:
    - An applicant must provide evidence
    Initial Training and orgoing Annual Refresher As

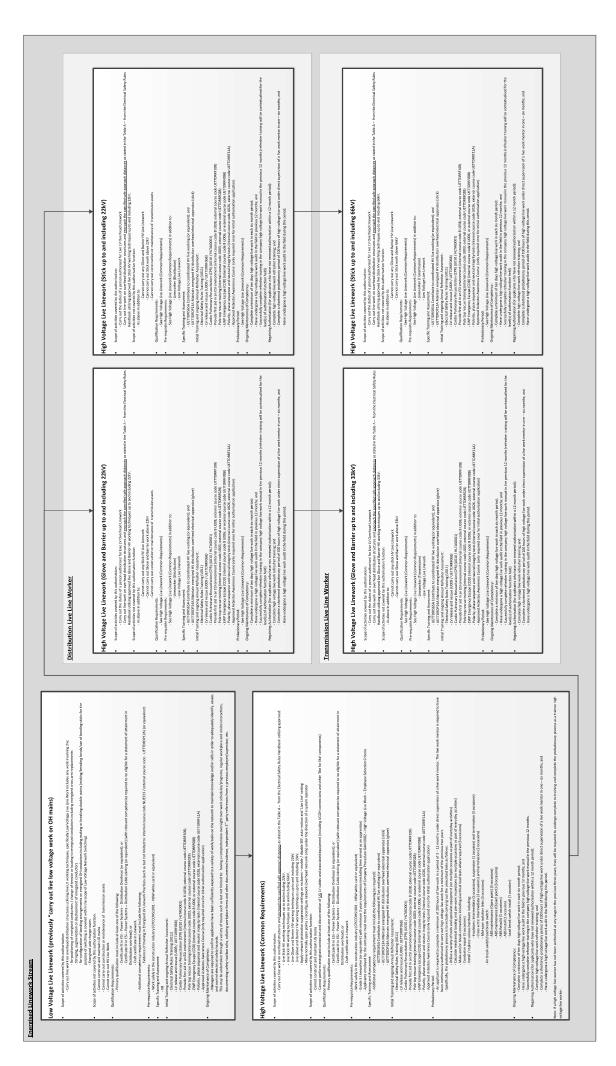
## Transmission Technologist Stream

## Construct, Maintain and Test Secondary Systems

## Construct, Maintain and Test Primary Systems



# 6.14 Authorisation Schedule 11





# 6.15 Accredited Service Provider Class Authorisation Function Matrix

ASP Class Category	'Trade Based' Authorisation Function	Other Authorisation Function(s) as required
Level One		
Class 1A (previously known as Category 1	<ul> <li>Construct &amp; Maintain Overhead Mains —         Distribution; or</li> <li>Construct &amp; Maintain Overhead Mains —</li> </ul>	<ul> <li>Hold Low Voltage Access Authority (LVAA); or</li> <li>Hold Access Authority for Work (AAW)</li> </ul>
overhead electricity network	Transmission; or  Construct & Maintain Overhead Mains - Transmission Tower	<ul> <li>Install and Remove Working Earths; or</li> <li>Install and Remove Operational Earths</li> </ul>
Class 1B (previously known as Category 2a Underground) – Underground Paper lead and Polymeric	<ul> <li>Construct &amp; Maintain Under Ground Mains</li> <li>Distribution; or</li> </ul>	<ul> <li>Hold Low Voltage Access Authority (LVAA); or</li> <li>Hold Access Authority for Work</li> </ul>
Class 1C – (previously known as Category 2b Underground) – Underground Polymeric only	Construct & Maintain Under Ground Mains     Transmission	(AAW)
		<ul> <li>Operate or Observe Plant Near Overhead Electrical Apparatus</li> </ul>
Class 1X – Non-electrically qualified. This class allows non-electrically qualified	<ul> <li>Carry out trade assistance functions (Ground); or</li> </ul>	<ul> <li>Observe Excavation Work Near the Network; or</li> </ul>
Scheme in accordance with the Scheme Rules.	<ul> <li>Carry out trade assistance functions (Overhead)</li> </ul>	<ul> <li>Carry Out Excavation Work Near the Network</li> </ul>
		<ul> <li>Hold Access Authority for Work (AAW)</li> <li>Personal Issue</li> </ul>



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



## 7.0 FREQUENTLY ASKED QUESTIONS

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

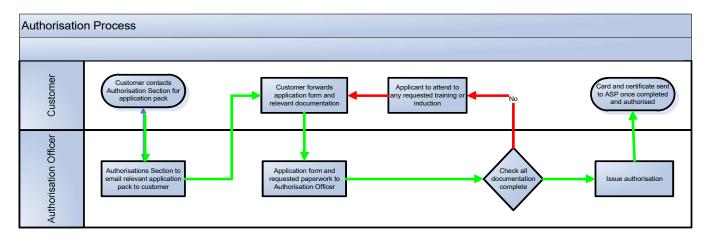
Yes, unless you are under supervision. All people wishing to work on or near the Endeavour Energy electricity network without authorised supervision will be appropriately authorised, once they have met the competency requirements that are requested for each individual function.

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

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

## How do I get authorised?

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



## What is an Authorised Person (AUP)?

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

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

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

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

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

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

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

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

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

## What is a Registered Training Organisation?

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

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

## How do I obtain sealing pliers?

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

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

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

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

## Notes:

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

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



Harcor Australia

Unit 3/1 Skyline Place Frenchs Forest, NSW 2086 Australia Tel: + 61 (0)2 9454 4200

E-mail: <a href="mailto:sales@harcor.com.au">sales@harcor.com.au</a>

## 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.
  - o Endeavour Energy will accept and credit returned meters and relays up to 30 Sep 2017.
  - Equipment that remains in ASP's stock following 30 September will be the responsibility
    of the ASP and will not be accepted back or be credited by Endeavour Energy.
  - ASPs will be unable to use any meters or relays held by them after 30 November and should dispose of this equipment as they will be redundant.

## Important Changes to Issuing of Load Control Devices:

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

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

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

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

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

## 8.0 CONTACT INFORMATION

## **Enquiries:**

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

## Other useful links:

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



