

ELECTRICAL SAFETY AUTHORISATIONS

Authorisations Manual

Electrical & Public Safety

January 2022

Please note:

This document is best viewed on an electronic device



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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

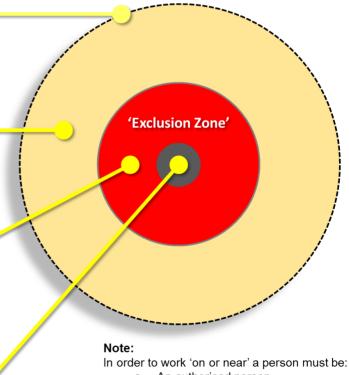
Working Near (within 3 metres of the network)

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.

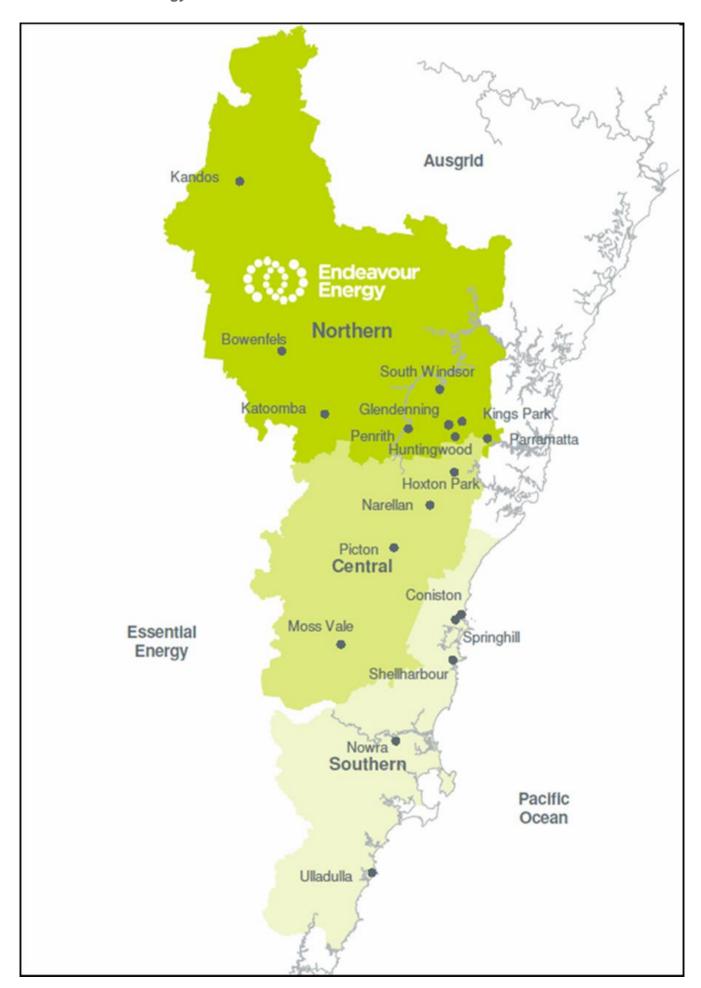
Working On (in contact with the network)



An instructed person

Under the appropriate level of supervision of an authorised person

1.1.2 Endeavour Energy Franchise Area



1.2 Safety management

Individual competency

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.

Company Safety Management System

Authorisations are granted to individuals on the condition they hold the necessary competency requirements for the relevant functions to be held, in addition to being employed by a company that has an adequate safety management system that encompasses the type of work to be carried out. For new worker authorisation requests associated with a type of work not previously undertaken by that organisation, the company's safety management system may require reassessment to determine appropriateness for the new type of work.

Adequate safety management systems include:

- for contestable network services as defined under the Electricity Supply Act 1995 (NSW), the ASP Accreditation under the ASP Accreditation Scheme is considered to be an adequate safety management system;
- network operators operating within NSW who have a safety management system in place that
 meets the requirements of AS5577-2013 Electricity network safety management systems (for the
 safe design, construction, commissioning, operation, maintenance and decommissioning of its
 electricity network) are also deemed as having an adequate safety management system; and
- alternatively, a company may operate a safety management system specifically assessed as adequate by Endeavour Energy.



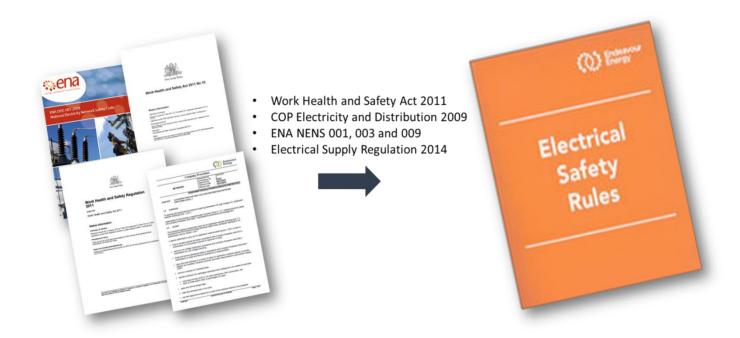
1.3 Electrical Safety Rules

Authorisation functions are developed in accordance with the Endeavour Energy Electrical Safety Rules.

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 November 2019
- Endeavour Energy Electrical Safety Rules associated procedures

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



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 and Public Safety. 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 and Public Safety 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.

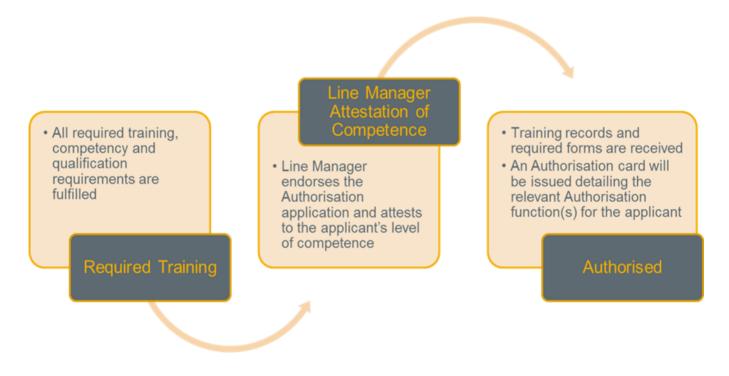
There are a range of requirements specified for each authorisation function. These generally include a qualification, certain specialised initial training courses, and a range of refresher training that needs to be completed each year.

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 AUTHORISATIONS PROCESS MANAGEMENT

3.1 Legitimate need for Authorisation

A person will only be authorised to work on or near the company's electricity network if they are employed by a company that has a legitimate need to employ authorised persons.

Companies other than Endeavour Energy must be registered in NAAS before their employees will be authorised.

All persons will be authorised subject to them meeting the competency and administrative requirements of an individual authorisation and having a nominating endorsement from their manager as required in Section 5.2.

3.1.1 Employees of the company

Where a new employee is being recruited into a role requiring authorisation for a specific function/s, the ability of the candidate to meet all relevant authorisation criteria must be confirmed by the line manager of the role prior to any offer of employment.

3.1.2 Accredited Service Providers (ASPs)

An ASP must hold current ASP accreditation issued by the NSW Dept of Planning, Industry and Environment in order to be registered in NAAS.

All personnel employed by an ASP must be registered with the NSW Dept of Planning, Industry and Environment, and the employee registration letter must be submitted to the distributor when submitting all paperwork requesting authorisation.

The authorisations of an authorised person will remain valid until the requirements specified for the specific authorisations expire but will not be renewed if their ASP is no longer accredited, even if all other requirements for renewal of authorisation have been met. Additionally, their authorisation will be suspended / cancelled upon loss of accreditation by their ASP.

Authorisation will only remain valid while the ASP's accreditation remains current. If an accreditation has expired with the NSW Dept of Planning, Industry and Environment, the authorised person's authorisations will be cancelled.

3.1.3 Contractors to the company

The contract owner must request the Electrical & Public Safety section to register a company that has a contract of service with the company or that is on a contractor panel to provide services to the company in NAAS.

Contracting companies will only remain registered in NAAS while they have a contract with the company or are on a contractor panel. The authorisations of employees of contracting companies will remain valid until the requirements specified for the specific authorisations expire but will not be renewed if a contracting company is not registered in NAAS, even if all other requirements for renewal of authorisation have been met.

3.1.4 Employees of other network operators

An employee of another network operator must be directly employed by a network operator within NSW that has a safety management system in place which confirms that the design, construction, commissioning, operation and decommissioning of its network is safe in compliance with AS 5577-2013 Electricity network safety management systems in order to be registered in NAAS.



3.2 Non-transfer of authorisations

Authorisations are unique to the employer of the authorised person who endorsed their nominating application and are not transferable. This does not prohibit an alternate employer seeking independent authorisation of the same individual as an authorised person and as long as they have been registered with the ASP Scheme, and the employee registration letter submitted.

3.3 Training, qualification and competency requirements

The training, qualification and competency requirements that a person must hold to obtain authorisation to carry out a specific function will be detailed in Schedules 1-11.

Additional training that may be relevant to specific functions that is not mandatory but recommended may be shown in Schedules 1-11 with a specific notation "as required".

3.3.1 Submission of training records

All company employees applying for authorisation for access to the network must have their direct manager's endorsement (or higher).

Applications for authorisation from employees of external companies must be approved by a delegated responsible controlling officer of that company.

Evidence of training and assessment from RTOs other than evidence of training carried out by the company's Training Delivery Branch for employees must be submitted to the Authorisations Section in one the following forms:

- certificate issued by the RTO and signed by the trainer or representative of the RTO; or
- a matrix clearly showing the full names and companies of persons trained and the training outcomes completed by each person. This matrix must be signed and dated by the trainer or representative of the RTO.

Scanned or copied training passports will not be accepted as evidence of training for any new applications or refresher training for authorisation renewals if the identity of the holder is not shown on same page as the training records.

Only complete packages of complying documentation for authorisations assessment will be considered. Part submissions will not be considered.

Evidence of training carried out by the company's Training Delivery Branch for employees must be entered into Ellipse within five working days of the training being completed.

3.3.2 Recognition of Authorisation Functions with other network operators

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



3.4 Authorisation application

Applications must be accompanied by valid evidence that all competency requirements as defined in the specific authorisation functions within Schedules 1-11 have been met.

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.

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 third-party references from a previous employer/supervisor, verification of competency assessments, etc.

Specifically, 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.

For company employees, the declaration of competency must be signed by the authorised person's line manager or higher. For employees of ASPs, contractors to the company or employees of other network operators, the declaration of competency must be signed by an appropriately delegated officer of the authorised person's employer.

Application forms, certificates, training transcripts and other forms of valid evidence will be electronically stored in the company authorisation database, NAAS.

Note: An applicant is not authorised until an Authorisation card is issued.

All applications for new authorisations must be made on Company Form FAM 0015 – Authorised Person Application and submitted along with the Employee Registration letter from the ASP Scheme.



3.4.1 Issue of authorisation

Authorisation will be issued to successful applicants by the Manager Electrical and Public Safety. A letter which describes the level of authorisation and an individual Network Access Authorisation Card will be forwarded to the applicant's employer and to the contract owner in the case of employees of contractors to the company as proof of authorisation.

3.4.2 Evidence of authorisation

All authorised persons will be issued with a Network Access Authorisation Card which will indicate the functions which a person is authorised to carry out. The Network Access Authorisation Card must include a photo of the authorised person as positive identification of the authorised person and must indicate the date of expiry of the authorisation.

Each authorised person must carry their Network Access Authorisation Card with them whenever they are undertaking authorised functions.



3.5 Authorisation renewal

All applications for renewal of authorisation must be amended and signed and completed on the automatically generated form by NAAS.

Applications for renewal must be accompanied by valid evidence that all competency requirements as defined in the function specific authorisation procedure have been completed.

All applications for renewal of authorisation must be accompanied by a declaration of the competency of the authorised person to carry out the authorised function by their responsible employer.

For employees, the declaration of competency must be signed by the authorised person's line manager or higher. For employees of ASPs, contractors to the company or representatives of other network operators, the declaration of competency must be signed by an appropriately delegated officer of the authorised person's employer.

Authorised persons whose authorisations are not renewed prior to the expiry date will not be permitted to access the network, unless under the supervision of a person authorised to undertake the work.

3.6 Renewal reminders

The Authorisations Section will send a reminder notice to the manager of each authorised person approximately ten weeks prior to the person's authorisation anniversary date.

One month prior to the anniversary date, a second reminder must be sent by email and will include a renewal application form, completed with the authorised person's details, including the authorisations currently held by that person.

3.7 Authorisation anniversary date

Training renewal anniversaries will be a fixed date and month of the year and will be retained, provided refresher training and valid evidence thereof has occurred within one month prior or after the anniversary date. An authorised person's authorisation anniversary date must be 12 months after the authorisations Electrical Safety Rules training date.

Additional authorisations gained outside of the authorisation renewal period must have an initial authorisation anniversary date the same as an authorised person's existing authorisations.

Note: This will generally mean that additional authorisations are initially valid for a period of less than one year.

If any authorisation renewal requirement is met outside of the authorisation renewal period, the authorisation anniversary date for all authorisations held by an authorised person must remain and renewal of the lapsed authorisation must therefore be valid for a period less than 12 months.

3.8 Authorisation expiry date

The authorisation expiry date will be a fixed date and month of the year, one month after the anniversary date. Provided that all renewal requirements for all authorisations held by an authorised person are satisfied within the authorisation renewal period, the authorisation will be renewed, and the anniversary date will remain.



3.9 Authorisation suspension

An authorisation may be suspended for any of the following reasons:

- expiry date has been reached and the authorisation renewal requirements have not been met;
- failure to achieve the assessment requirements for Electrical Safety Rules training;
- Suspension of Network Authorisation Following an Electrical Incident;
- expiry of accreditation of an ASP or contract; and
- failure to comply with relevant company procedures.

A person whose authorisation is suspended must not undertake work for which the authorisation is required unless under the direct supervision of a person authorised to undertake the work.

3.10 Temporary Authorisation suspension

Within 24 hours of an incident, the relevant level 4 manager responsible for the workers involved in any way must:

- assess the circumstances of the incident to such an extent as to determine whether they retain
 confidence in the competency of the workers involved in the incident, what duties the workers are
 safe to continue carrying out, and if temporarily suspension is required;
- advise the Manager Electrical and Public Safety of the outcome of this assessment;
- if the outcome of the assessment is to suspend, then formally request (including a brief outline
- of the incident and reasons for suspension) the Manager Electrical and Public Safety to suspend the workers nominated network authorisations; and
- advise effected workers, contractors or ASPs of their temporary suspension of network authorisation, pending the outcome of further investigations.

Note: Endeavour Energy share basic factual information reports of all ASP incidents with Ausgrid, Essential Energy and the NSW Dept of Planning, Industry and Environment.

The suspension of network authorisation shall be recorded in the NAAS with notes giving details of who requested the authorisation to be suspended, the reason for the suspension and the conditions required to re-instate the authorisation. Notes can be progressively added to the system if required (for example if the network authorisation reinstatement criteria is not determined at the time of suspension these details can be added later).

Following network authorisation suspension, the authorisation card shall be taken from the worker(s) involved and shall be kept by the level 4 manager responsible for the worker. Following suspension, the level 4 manager responsible for the workers involved will develop for consideration appropriate criteria for the network authorisation to be reinstated.

In some cases, this may not occur until after the outcome of an Incident Cause Analysis Method (ICAM) investigation is known, and/or to simply confirm that the cause of the incident was not an ESR violation and that those involved are still competent to continue working on the network.

Suspended authorisations will only be reinstated, and authorisations cards returned once the criteria for reinstatement developed by the relevant level 4 manager has been satisfied.



3.11 Authorisation cancellation

A person's authorisation must be cancelled if their authorisation is currently suspended, and their authorisation renewal requirements have not been met within one calendar year of their expiry date.

A person's authorisation may be cancelled by the authorised persons manager following a submission in writing to the Authorisations team detailing the basis for the request, for either of the following reasons:

- the holder of the authorisation is deemed no longer competent to carry out the function; or
- · authorisation is no longer required.

Notice of request for cancellation must be made by an employee's level 4 manager or by an appropriately delegated officer of the authorised person's employer or the company's contract owner in the case of an employee of an external company.

Where a person whose authorisation has been cancelled seeks to be re-authorised, they will be subject to all of the requirements of a new application.

3.12 Authorisation reporting

Reports may be requested by line managers to run a series of reports from NAAS to identify personnel who have been suspended in the previous month and those who will be suspended in the next month.

3.13 Authorisation process governance

Amendments to the Authorisation process and any related Authorisation functions will be subject to endorsement from the Electricity Network Safety Management System (ENSMS) Committee considering the need for amendment, the communication and consultation required, the implementation plan and impact on relevant stakeholders.



3.14 Non-authorised persons

3.14.1 Supervision

A person who is not authorised to undertake a particular task that requires authorisation under this procedure must only undertake that task where they are under the appropriate level of supervision (as determined by risk assessment) of a person authorised to carry out the function and the authorised person does not have an explicit restriction on the supervision of personnel who are not authorised for that function. This supervision must 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.

3.14.2 Training

Persons undergoing training to carry out a specific authorised function may carry out that function without holding the required authorisation provided they are under the appropriate level of supervision (as determined by risk assessment) of a person authorised to carry out the function.

3.14.3 Short term workers or other dispensation

In situations where, because a person will only be working on the company's network for a short time or will only require infrequent access to the network, and in the opinion of the relevant level 4 manager the safety benefits to be achieved from authorisation will be efficiently and equally achieved by other means, then written dispensation from the requirement to be authorised will be granted, subject to the relevant level 4 manager, acknowledging in writing their responsibility for the safety obligation controls of the individuals under supervision in addition to being supported by a detailed risk assessment.

Written evidence of this dispensation must be carried with the unauthorised worker and be able to be presented upon request.

The Manager Electrical and Public Safety must be notified in writing by the relevant level 4 manager granting dispensation of every case where dispensation from the requirements to be authorised has been granted.

3.14.4 Emergency situations

In emergency situations (referring only to life threatening situations) the System Operator may request an unauthorised person to conduct authorised functions. Such requests must only be made once the System Operator is satisfied that an emergency situation exists and that no authorised person is available to attend the emergency within a satisfactory period of time.

The un-authorised person and System Operator must agree that the function to be performed is understood and can be carried out safely.

The person requested to perform the authorised function retains the right to refuse the request if they consider it unsafe to carry out the authorised function.

A record of such requests must be maintained by the System Operator.



4.0 TRAINING REQUIREMENTS

4.1 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:

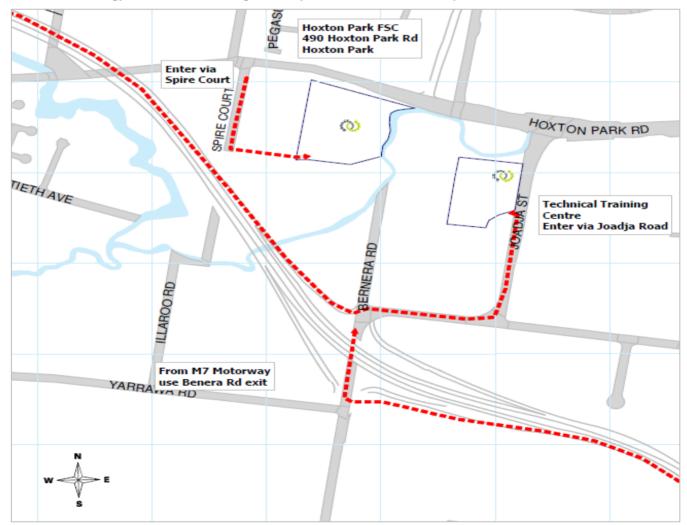
- Initial Electrical Safety Rules training
- Substation entry training
- Access Authority training
- LV and HV switching training

Contact:

Email: technical.training@endeavourenergy.com.au

Phone: 9853 7522

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





4.2 External Registered Training Organisations (RTOs)

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

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

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

4.3 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)





4.3.1 Accredited RTOs (as at December 2021)

RTO name	ESR Refresher	CAVC	Excavation VOC	
Endeavour Energy 02 9853 7522 www.endeavourenergy.com.au	Endeavour Energy	Accredited to deliver		Accredited to deliver
Admire Workplace Safety http://admireworkplacesafety.com.au/ (02) 4869 5663	Admire Workplace Safety	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 NSW Energy Training Services Unit 131 601 https://www.tafensw.edu.au/asp		Accredited to deliver		
Enersafe Training (02) 8602 2000 https://www.enersafe.com.au/	ENERSAFE	Accredited to deliver		
NECA Training (02) 9188 4424 www.necatraining.com.au	national electrical and communications association	Accredited to deliver		
Essential Energy Training Services 13 23 91 www.essentialenergy.com.au	essential energy	Accredited to deliver		
Aurecon Group (08) 8919 9777 https://www.aurecongroup.com/	aurecon	Accredited to deliver		
Power Safety Training (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 Professional Training Solutions		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
Thompson Bridge 1300 156 685 https://www.thomsonbridge.com/	Thomson	Accredited to deliver		
JB Hunter 1800 672 933 https://www.jbhunter.edu.au/contact/	JB HUNTER	Accredited to deliver		



5.0 REQUIREMENTS FOR SUPERVISION

5.1 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.

The following categorisations may assist your risk assessment:

- <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 Education Supervising your apprentice or trainee - A guide for workplace supervisors August 2021



6.0 ACCESSING THE NETWORK

6.1 Requirement to be Authorised

All persons required to work on or near the company's electricity network must be authorised in accordance with the requirements of this manual and Schedules 1 - 11.

Authorisation functions are developed to provide competency assurance for individuals working on or near the network as having the necessary knowledge and/or skills to perform tasks safely. It should be noted that the competency requirements are designed to provide assurance of the ability for an individual to adequately identify, assess and control electrical safety hazards, not to specifically provide assurance for the technical competence for quality of work.

The authorisations framework incorporates various functions that define the competency requirements for performing tasks on or near the network. The authorisations framework additionally hosts specific functions deemed as having a significant impact on network integrity, functions related to high risk tasks or those requiring a high level of ongoing competency management.

All company line managers and contract owners, ASPs, CSPs and other Network Operator line management are responsible for allowing only appropriately authorised persons to be allocated work on or near the network.

A person required to carry out specific functions on or near the company's electricity network will be required to provide evidence of their competency to carry out such functions before they will be authorised to carry out these functions.





6.2 Network Access Authorisation Card/Certificate

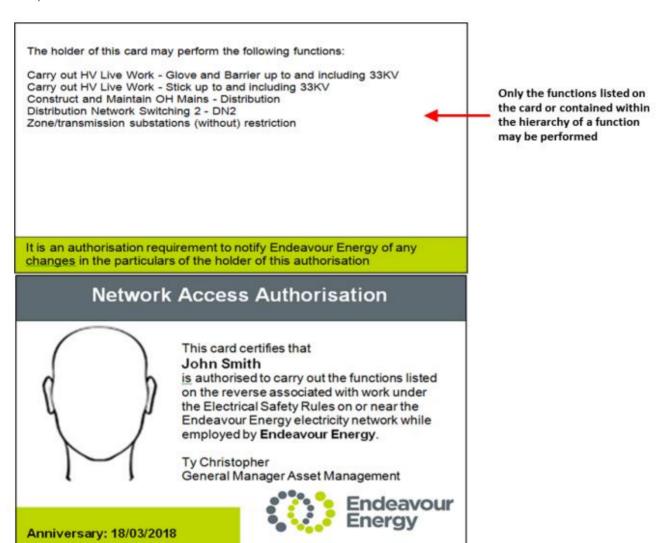
In order to provide evidence of appropriate authorisation, a digital network access authorisation card/certificate must be issued listing the specific functions a person is authorised to carry out.

The functions will be listed (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 card/certificate.



7.0 AUTHORISATION FUNCTIONS

7.1 Authorisation hierarchy

The various specific authorisation functions and associated hierarchies are detailed further in this document through Schedules 1 - 11.

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 schedules further in this document.

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
- Issue / Cancel Access Authority

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

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

Schedule 7 - Overhead Line and Ground Line Inspection Authorisations

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

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

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



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



Schedule 8 - Service and Metering Authorisations



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

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

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

Further detail in section 6.11

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

Schedule 9 - Plant and Equipment Authorisations

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

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

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



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



Schedule 10 - Trade Based Authorisations



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

The streams include:

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

Further detail in section 6.13

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

- Carry out non-electrical work (Ground)
- Carry out non-electrical work (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



Schedule 11 - Live Work Authorisations

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

Low Voltage Live Line Work includes any work involving the:

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

High Voltage Live Line Work is broken into four streams:

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





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

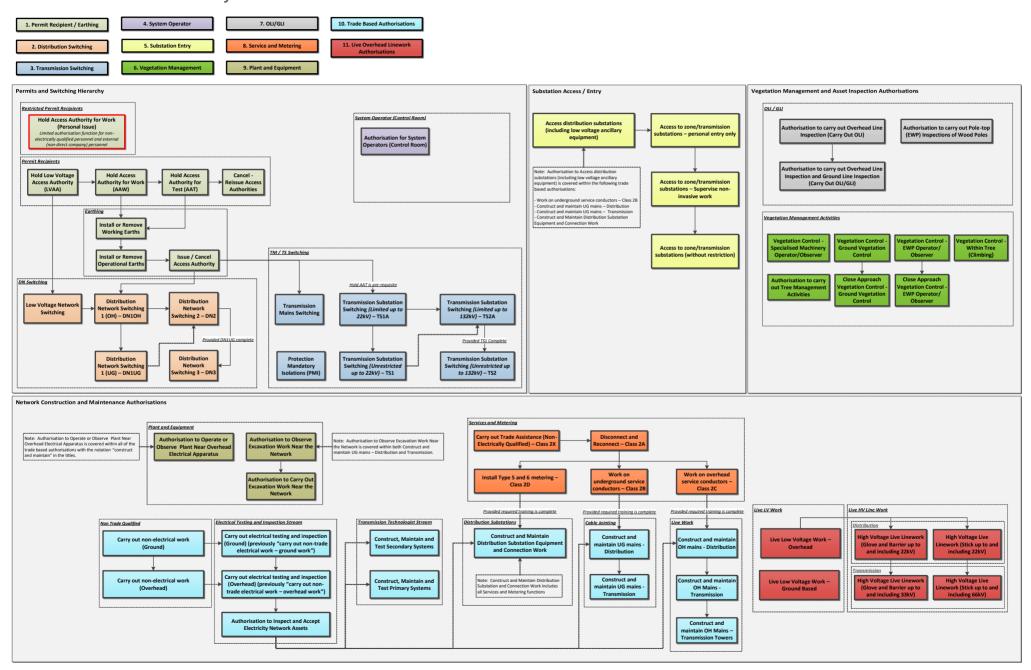


7.3 Refresher Training Matrix

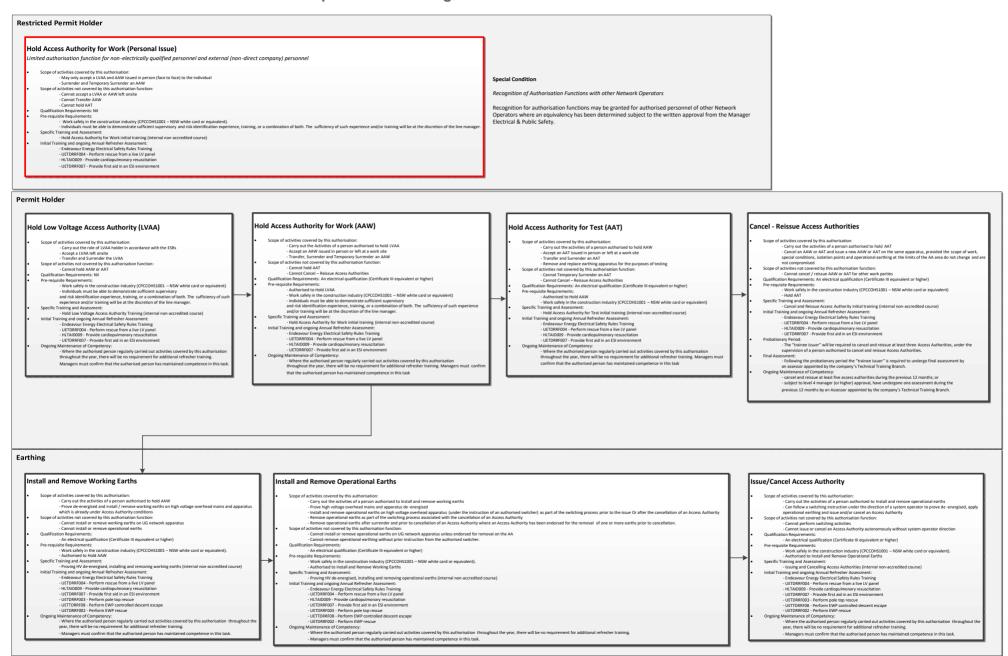
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Hold Low Voltage Access Authority (LVAA) N X X X X X X X X X X X X X X X X X X														
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Hold Low Voltage Access Authority (LVAA)		X	X	X										
Hold Access Authority for Work (AAW) – Personal Issue Hold Access Authority for Work	X	X	X	X										
Hold Access Authority for Test (AAT)	X	Х	Х	Х										
Cancel - Reissue Access Authorities	X	X	X	X		v	v							
Install and Remove Working Earths Install and Remove Operational Earths	X	X	X	X	X	X	X							
Issue / cancel Access Authority	Х	Х	Х	Х	Х	х	X							
Low Voltage Network Switching	X	X	X	X	X	X	X	X						
Distribution Network Switching 1 (OH) - DN1 Distribution Network Switching 2 - DN2	X	X	X	X	X	X	X	X						
Distribution Network Switching 1 (UG) - DN1UG	X	X	X	X	X	X	X	X						
Distribution Network Switching 3 - DN3	Х	Х	Х	Х	Х	X	X	X						
Protection Mandatory Isolations (PMI)	X	X	X	X				X						
Transmission Mains Switching Transmission Substation Switching (Limited up to 22kV) - TS1A	X	X	X	X	X	X	X	X						
Transmission Substation Switching (Limited up to 132kV) - TS2A	Х	Х	Х	Х	Х	Х	Х	Х						
Transmission Substation Switching (Unrestricted up to 22kV) - TS1	X	Х	Х	Х	Х	X	X	X						
Transmission Substation Switching (Unrestricted up to 132kV) - TS2 System Operators (Control Room)	X	Х	Х	Х	Х	X	X	X						
Access Distribution Substations (including low voltage ancillary equipment)	X	Х	Х	Х										
Access Zone/Transmission Substations - Personal Entry	X	X	X	X										
Access Zone/Transmission Substations - Supervise non-invasive work Access Zone/Transmission Substations - (without restriction)	X	X	X	X										
Tree Management Activities	X	X	X	X	Х	Х	Х							
Vegetation Control - Ground Vegetation Control	X	X		Х										
Vegetation Control - EWP Operator/Observer Vegetation Control - Within Tree (Climbing)	X	X		X										
Close Approach Vegetation Control - Ground Vegetation Control	X	X		X										
Close Approach Vegetation Control - EWP Operator/Observer	X	Х		Х										
Overhead Line Inspection (OLI)	X	X	X	X										
Overhead Line Inspection and Ground Line Inspection (OLI/GLI) Pole-Top (EWP) Inspections of Wood Poles	X	X	X	X	х	Х	Х							
Trade Assistance (non electrically qualified) Class 2x	Х	Х	Х	Х	Х									
Disconnect and Reconnect - Class 2A	X	X	X					X						
Work on Underground Service Conductors - Class 2B Work on Overhead Service Conductors - Class 2C	X	X	X	X	X			X						
Install Type 5 and 6 Metering - Class 2D	Х	Х	Х	Х				X						
Operator or Observe Plant Near Overhead Electrical Apparatus	X	X	X	X										
Observe Excavation Near the Network Excavation Work Near the Network	X	X	X	X										
Carry out non-electrical work (Ground)	X	Х	Х											
Carry out non-electrical work (Overhead)	X	Х	X		Х	X	X							
Electrical Testing and Inspection (Ground) Electrical Testing and Inspection (Overhead)	X	X	X	X	х	X	Х	X						
Inspect and Accept Electricity Network Assets	X	X	X	X	X	X	X	X						
Construct and Maintain Distribution Substation Equipment and Connection Work	Х	Х	Х	Х	Х	Х	Х	X						
Construct and Maintain UG Mains - Distribution Construct and Maintain UG Mains - Transmission	X	X	X	X	X	X	X	X						
Construct and Maintain Od Mains - Transmission Construct and Maintain OH Mains - Distribution	X	X	X	X	X	X	X	X						
Construct and Maintain OH Mains - Transmission	X	Х	Х	Х	Х	Х	X	X						
Construct and Maintain OH Mains - Transmission Towers Construct, Maintain and Test Secondary Systems	X	X	X	X	X	X	X	X	Х	X				
Construct, Maintain and Test Secondary Systems Construct, Maintain and Test Primary Systems	X	X	X	X	X	X	X	X		X				
Live Low Voltage - Overhead	Х	Х	Х	Х	х	х	X	X						
Live Low Voltage - Ground Level	X	X	X	X	v	v	V	X						
High Voltage Live Linework (Glove and Barrier up to and including 22kV) High Voltage Live Linework (Stick up to and including 22kV)	X	X	X	X	X	X	X	X						
High Voltage Live Linework (Glove and Barrier up to and including 33kV)	X	Х	Х	X	Х	Х	Х	X						
High Voltage Live Linework (Stick up to and including 66kV)	X	X	X	X	Х	X	X	X						



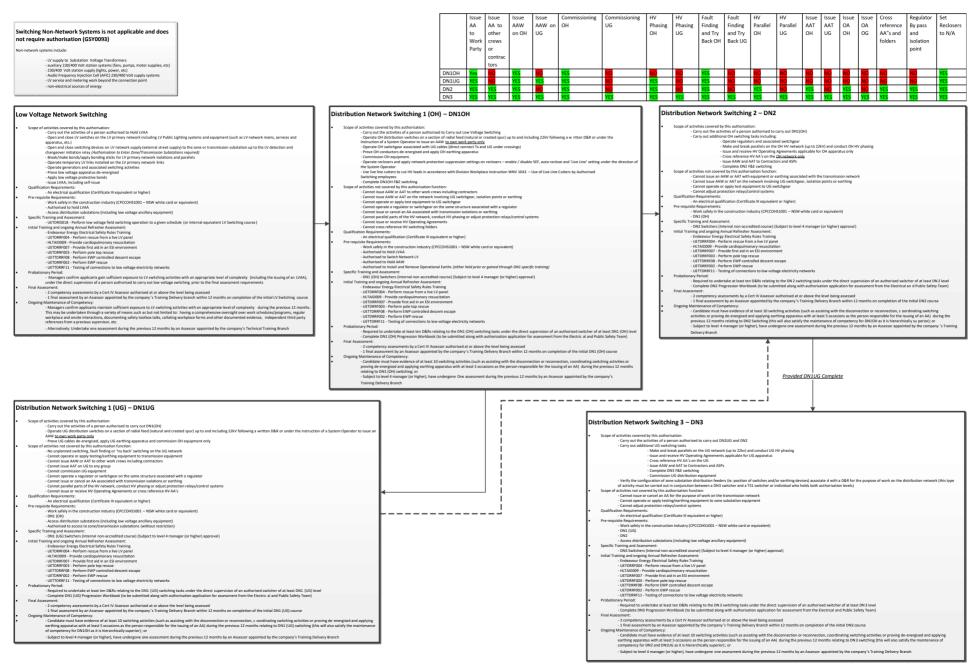
7.4 Authorisation hierarchy overview



7.5 Authorisation Schedule 1 Permit Recipient and Earthing Authorisations



7.6 Authorisation Schedule 2 Distribution Switching Authorisations



Authorisation Schedule 3 Transmission Switching Authorisations

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

Transmission Substation Switching (Limited up to 132kV) - TS2A

Carry out the duties of a person authorised to carry out TS1A Switching.

Tra	ansmission Mains Switching
	Scope of Sachibles conversed by this surface station. Operates or between 1 semantisms of desirches and outdoor line isolators within substations up to including \$132M following a written D&R or under instruction of a System Operator Check open outdoor circuit breakers - Includer VTs Operate \$13M feel reclosures - Operate \$13M feel reclosures - Includer VTs - Operate \$13M feel reclosures - Includer VTs - Operate \$13M feel reclosures - Includer VTs - Operate \$13M feel reclosures - Operate \$13M
•	Sope of achieties not covered by this authorization function. - This warrier can not tissue ARM or ART to other work creas including contractors - Lamont operate any equipment on the supply side of the line toldate in the substations. - Cannot operate any equipment on the supply side of the line toldate in the substations are supply sides of the line toldate in the substations of applying earth on the transmission network for clearance on joint used occasions grant of an exercise ARM.
•	Qualification Requirements: - An electrical qualification (Certificate III equivalent or higher)
•	Pre-requisite Requirements: - Work safely in the construction industry (CPCCOHS1001 – NSW white card or equivalent) - Authorised to Hold AAW
	 DN1OH theory and practical (to satisfy underpinning knowledge, not for the purpose of authorisation) Authorised to enter to zone/transmission substations (without restriction)
٠	Specific Training and Assessment: - Transmission Mains Switching initial training (Internal non-accredited course) (Subject to level 4 manager (or higher) approval)
	Initial Training and ongoing Annual Refresher Assessment:
	- Endeavour Energy Electrical Safety Males Trailing - UE/DBRSQN-4 Perform recupes from a) live U/S panel - HLTAID000- Provide cardiogulmonary resuscitation - UE/DBRSQN-7- Provide ferial paid in an ESI environment - III and the cardiogulmonary resuscitation - UE/DBRSQN-7- Provide ferial paid in an ESI environment - III and the cardiogulmonary resuscitation - UE/DBRSQN-7- Provide ferial paid in an ESI environment - III and III
	- UETDRS003 - Perform pole top rescue - UETDRS003 - Perform EVP controlled descent escape - UETDRS002 - Perform EVP rescue - UETDRS002 - Perform EVP rescue - UETDRS102 - Text controlled to the controlled descent escape - UETDRS102 - Text controlled to the con
•	Probationary Period: Required to undertake at least ten D&Rs containing TM Switching, under the direct supervision of a person authorised to carry out at least TM Switching.
	Complete TM Progression Workbook (to be submitted along with authorisation application for assessment from the Electrical and Public Safety Team) Final Assessment:
	 2 competency assessments by a Cert IV Assessor authorised at or above the level being assessed 1 final assessment by an Assessor appointed by the company's Training Delivery Branch within 12 months on completion of the initial TM course
	Ongoing - Majoritenance of Competency: - Majoritenance of Competency: - Subject to lowed final an interest ID DRRs containing TM Switching during the previous 12 months; or - Subject to level 4 manager (or highed), have undergone one assessment during the previous 12 months by an Assessor appointed by the company's Training Delivery Branch

Protection Mandatory Isolations (PMI)

Initial Training and ongoing Annual Refresher Assessment:

- Endeavour Energy Electrical Safety Rules Training

- UETDRRF004 - Perform rescue from a live LV panel

- HITAID009 - Provide cardiopulmonary resuscitation

- UETDRRF007 - Provide first aid in an ESI environme

- Required to undertake at least 3 protection mandatory isolations during the previous 12 months

Specific Training and Assessment





Transmission Substation Switching (Limited up to 22kV) - TS1A

Scone of activities covered by this authorization





7.8 Authorisation Schedule 4 System Operator Authorisation

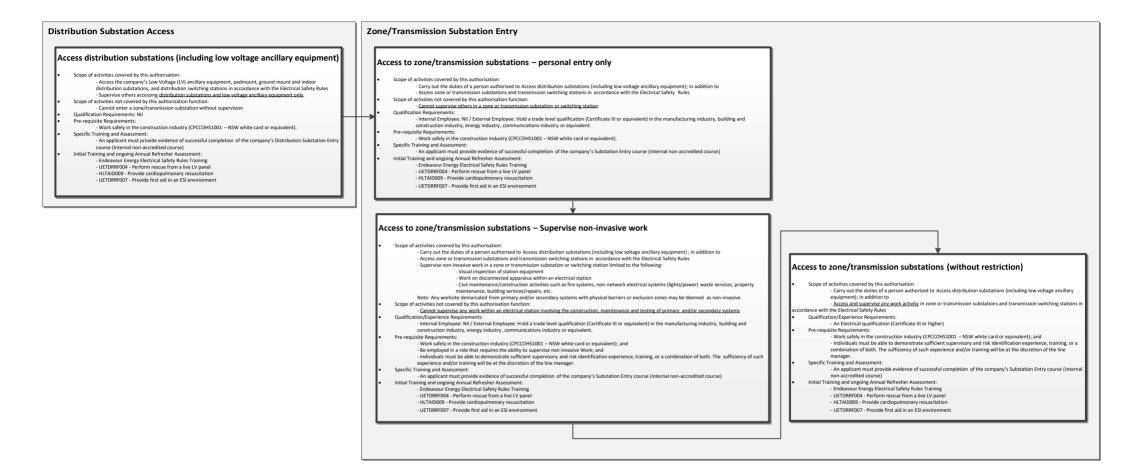
Authorisation for System Operators (Control Room)

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

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

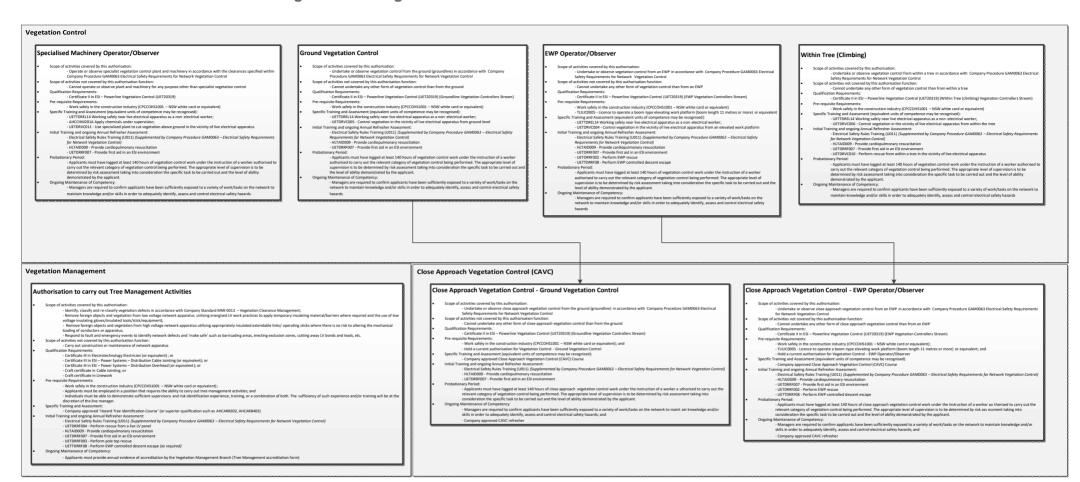


7.9 Authorisation Schedule 5 Substation Entry Authorisations





7.10 Authorisation Schedule 6 Vegetation Management Authorisations





7.11 Authorisation Schedule 7 Overhead Line and Ground Line Inspection Authorisations

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

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

- Scope of activities covered by this authorisation:
 - Carry out overhead line inspections in a field based environment; and
 - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures
- Scope of activities not covered by this authorisation function
 - Cannot classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures:
 - Cannot carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 Pole and Line Inspection and Treatment procedures; and
 - Cannot classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 Pole and Line
- Inspection and Treatment procedures Qualification Requirements
 - UET20621 Certificate II in ESI Asset Inspection and Testing (or equivalent)
- Pre-requisite Requirement
- Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Formal Instruction:
 - Initial Instruction in the requirements of Company Standard MMI 0001 Pole and Line Inspection and Treatment Procedures: and
 - Initial Instruction in the requirements of Company Standard MMI 00 34 Pre-Summer Bushfire Inspections
- Initial Training and ongoing Annual Refresher Assessment
 - Endeavour Energy Electrical Safety Rules Training
 - UETDRRF004 Perform rescue from a live LV panel
 - HLTAID009 Provide cardiopulmonary resuscitation
- UETDRRF007 Provide first aid in an ESI environment
- Ongoing Maintenance of Competency:
 - Applicants must provide annual evidence of accreditation signed by the OLI/GLI Manager specifically endorsing they have - Been formally briefed on any relevant changes or amendments to company standards/procedures

 - Maintained the necessary quality of inspection and satisfied all relevant audit criteria to the satisfaction of the OLI/GLI M anager

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

- Scope of activities covered by this authorisation
 - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures; and
- Classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures.
- Scope of activities not covered by this authorisation function
 - Cannot carry out pole-top inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 Pole and Line Inspection and Treatment procedures: and
 - Cannot classify and/or reclassify pole top defects on the company's wooden poles in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures
- Qualification Requirements
- UET20621 Certificate II in ESI Asset Inspection and Testing (or equivalent)
- Pre-requisite Requireme
 - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Formal Instruction
 - Initial Instruction in the requirements of Company Standard MMI 0001 Pole and Line Inspection and Treatment Procedures: and
 - Initial Instruction in the requirements of Company Standard MMI 0034 Pre-Summer Bushfire Inspections
- Initial Training and ongoing Annual Refresher Assessment:
 - Endeavour Energy Electrical Safety Rules Training
 - UETDRRF004 Perform rescue from a live LV panel - HLTAID009 - Provide cardionulmonary resuscitation
 - UETDRRE007 Provide first aid in an ESI environment
- Probationary Period:
 - Work under the direct supervision of a person authorised to carry out Overhead Line Inspection and Ground Line Inspection (Carry Out OLI/GLI) and complete a log book detailing OLI/GLI inspections across a range of network apparatus to the satisfaction of the OLI/GLI Mana ger
- Ongoing Maintenance of Competency:
 - Applicants must provide annual evidence of accreditation signed by the OLI/GLI Manager specifically endorsing they have
 - Been formally briefed on any relevant changes or amendments to company standards/procedures
 - Maintained the necessary quality of inspection and satisfied all relevant audit criteria to the satisfaction of the OLI/GLI M anager

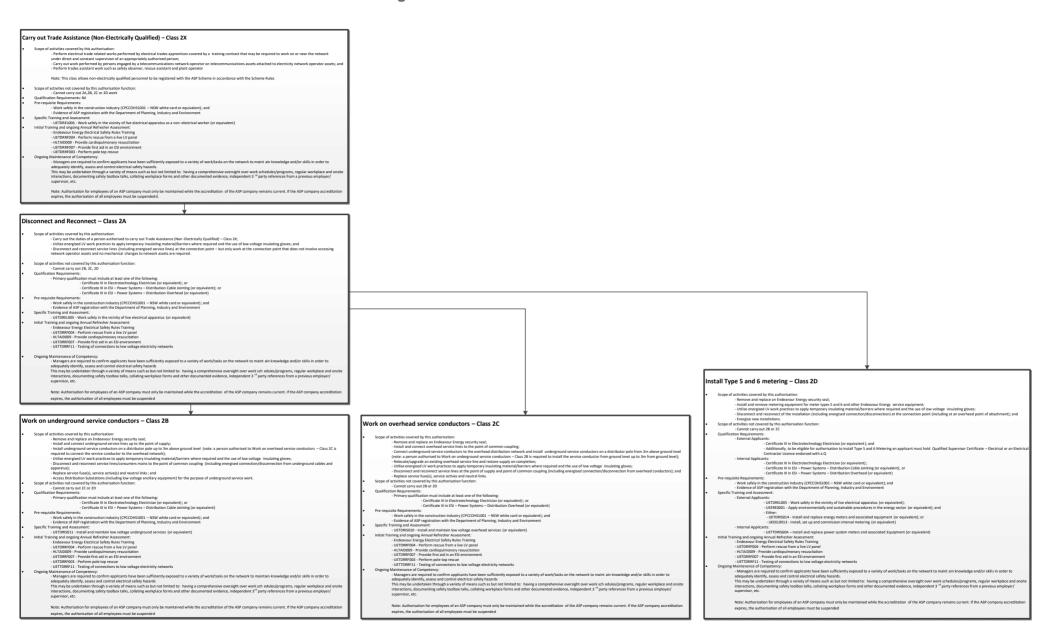
Pole Top Inspection (Electrically qualified specialist inspections carried out aloft)

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

- - Carry out pole-ton inspections of wood poles from an elevated work platform in accordance with the requirements of MMI 0001 Pole and Line Inspection and Treatment procedures: and
- Classify and/or reclassify note top defects on the company's wooden notes in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures Scope of activities not covered by this authorisation function.
 - Carry out overhead line inspections in a field based environment:
 - Classify and/or reclassify defects on the company's overhead network in accordance with Company Standard MMI 0001 Pole and Line Inspection and Treatment procedures; - Cannot classify and/or reclassify ground line defects on the company's poles in accordance with Company Standard MMI 0001 – Pole and Line Inspection and Treatment procedures
- Qualification Requiremen
 - An electrical qualification (Certificate III equivalent or higher)
- Pre-requisite Requirements:
 - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent);
 - TLILICO005 Licence to operate a boom-type elevating work platform (boom length 11 metres or more) or equivalent; and
- An applicant must hold current authorisation to Construct and maintain OH mains Distribution
- Specific Training and Assessment:
 - Initial Instruction in the requirements of Company Standard MMI 0001 Pole and Line Inspection and Treatment Procedures; and
 - Training in the requirements of pole top inspection of wooden poles from an EWP (Internal non-accredited course)
- Initial Training and ongoing Annual Refresher Assessment
 - Endeavour Energy Electrical Safety Rules Training
 - UFTDRRF004 Perform rescue from a live LV pane
 - HLTAID009 Provide cardiopulmonary resuscitation
 - UETDRRF007 Provide first aid in an ESI environment
 - UETDRRF003 Perform pole top rescue
 - LIFTTDRRFOR Perform FWP controlled descent escane
 - UFTDRREO02 Perform FWP rescue
- Ongoing Maintenance of Competency:
 - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately
 - Applicants must have carried out pole-top (EWP) inspections of wood poles on at least 3 occasions during the previous 12 months in accordance with MMI 0001 Pole and Line Inspection and Treatment procedures



7.12 Authorisation Schedule 8 Service and Metering Authorisations





7.13 Authorisation Schedule 9 Plant and Equipment Authorisations

Overhead Plant

Authorisation to Operate or Observe Plant Near Overhead Electrical Apparatus

- Scope of activities covered by this authorisation:
 - Operate plant up to the safe approach distances provided in Table A Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook, whilst an authorised safety observer is in place; and
 - Observe plant that is operated by an authorised operator up to the safe approach distances provided in Table A Safe Approach Distances for Authorised Persons and Instructed Persons, in the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
 - Cannot carry out or observe powered excavation work near the network
- Qualification Requirements: Nil
- Pre-requisite Requirements:
 - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Training and Assessment:
 - $\, {\sf UETDREL006} \, \, {\sf Work \, safely \, in \, the \, vicinity \, of \, live \, electrical \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, as \, a \, non \, -electrical \, worker \, (or \, equivalent); \, or \, apparatus \, apparatus$
 - Internal close approach to powerlines course (Internal non-accredited course)
- Initial Training and ongoing Annual Refresher Assessment:
 - Endeavour Energy Electrical Safety Rules Training
 - UETDRRF004 Perform rescue from a live LV panel
 - HLTAID009 Provide cardiopulmonary resuscitation
 - UETDRRF007 Provide first aid in an ESI environment
- Ongoing Maintenance of Competency:
 - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards. This may be undertaken through a variety of means such as but not limited to: having a comprehensive oversight over work schedules/programs, regular workplace and onsite interactions, documenting safety toolbox talks, collating workplace forms and other documented evidence, independent 3rd party references from a previous employer/supervisor, etc.

Excavation

Authorisation to Observe Excavation Work Near the Network

- Scope of activities covered by this authorisation:
 - Observe powered excavation activities carried out by an authorised operator In accordance with the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
 - Cannot carry out powered excavation work near the network
 - Cannot operate or observe plant near overhead electrical apparatus
- Qualification Requirements: Nil
- Pre-requisite Requirements:
 - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Training and Assessment:
- RIICCM202E Identify, locate and protect underground services (or equivalent)
- Initial Training and ongoing Annual Refresher Assessment:
 - Endeavour Energy Electrical Safety Rules Training
 - UETDRRF004 Perform rescue from a live LV panel
 - HLTAID009 Provide cardiopulmonary resuscitation
 - UETDRRF007 Provide first aid in an ESI environment
- · Ongoing Maintenance of Competency:
 - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards.

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

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

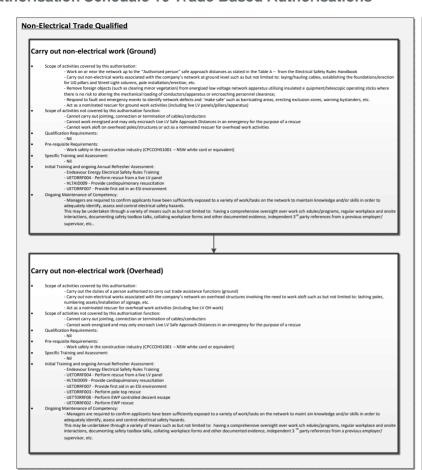
Authorisation to Carry Out Excavation Work Near the Network

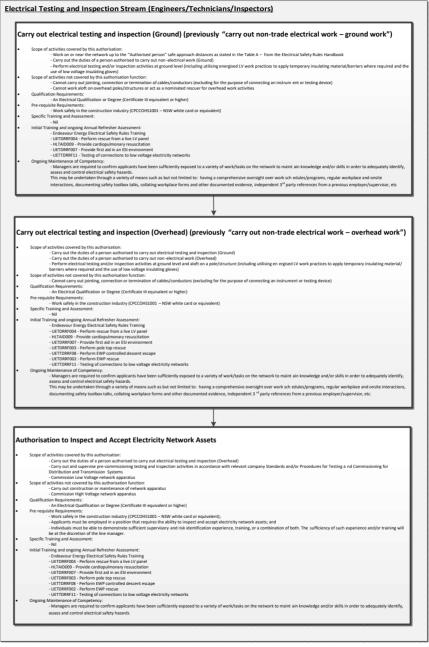
- Scope of activities covered by this authorisation:
 - Observe and carry out powered excavation activities carried out by an authorised operator In accordance with the Electrical Safety Rules Handbook.
- Scope of activities not covered by this authorisation function:
 - Cannot operate or observe plant near overhead electrical apparatus
- Qualification Requirements: Nil
 Pre-requisite Requirements:
 - Work safely in the construction industry (CPCCOHS1001 NSW white card or equivalent)
- Specific Training and Assessment:
 - RIICCM202E Identify, locate and protect underground services (or equivalent); and
 - Additionally, in order to gain authorisation to carry out excavation near the network, a person must complete a practical Verification
 of Competence (VOC) by an Endeavour Energy accredited RTO. The VOC must be carried out in accordance with Endeavour Energy
 Electrical Safety Rules and ESI context.
- Initial Training and ongoing Annual Refresher Assessment:
 - Endeavour Energy Electrical Safety Rules Training
 - UETDRRF004 Perform rescue from a live LV panel
 - HLTAID009 Provide cardiopulmonary resuscitation
 - UETDRRF007 Provide first aid in an ESI environment
- Ongoing Maintenance of Competency:
 - Managers are required to confirm applicants have been sufficiently exposed to a variety of work/tasks on the network to maintain knowledge and/or skills in order to adequately identify, assess and control electrical safety hazards

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

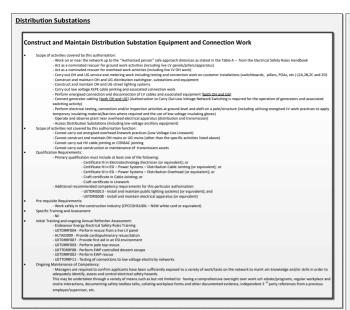


7.14 Authorisation Schedule 10 Trade Based Authorisations









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Construct and maintain UG mains - Distribution

Soog of lativities covered by the authorisation:

Work on or near the network up to the "Authorised person" safe approach distances a stated in the Table A – from the Bectrical Safety Bules Handbook Act as a nonimisated receive the ground work Authorise (including beet by parely/plans/apparatual)

Construct and maintain UG distribution mains and apparatus including distribution substantions and US street lighting systems

Carry out castle pistings of demonstrate which the Construction of the Construct and maintain UG distribution mains and apparatus including distribution authorises and successed assets (popular call payments)

Carry out castle pistings of demonstrate which including distribution authorises and accessed assets (popular call payments)

Carry out orderground service work (including statisticine, maintenance, testing and connection work on customer installations, plans test)

Perform described in the control of the Construction of
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Construct and maintain UG mains - Transmission

- Certificate III is 12 - Power Systems - Distribution Overhead for equivalent) (with relevant competencies required to be eligible for a statement of attains in instruction cable) jointing.

Pre-requisite Requirements:

- Work safely in the construction industry (CPCCHSSIODI - NSW white card or equivalent)

- Specific Training and dissemented:

- Institut Training and cognitive forward Reference Assessment:

- Institut Training and cognitive forward Reference Assessment:

Indeavour Lengy Estrical Sarety Nuise Training
 UETDRRF004 Perform rescue from a live LV panel
 HETAIR009 - Provide cardiopulmonary resuscitation
 UETDRRF007 - Provide first alid in an ESI environment
 UETDRRF003 - Perform pole top rescue
 UETDRRF003 - Perform EWP controlled descent escape
 UETDRRF002 - Perform EWP rescue

Construct Maintain and Test Primary Systems

UETDRRF002 - Perform EWP rescue
 UETDRRF11 - Testing of connections to low voltage electricity networks
 Probationary Period:
 Managers confirm applicants gain sufficient exposure to transmission cable joined to the period of the per

-Manager, confirm applicants gain millicent exposure to transmission calls plotting activities ranging in type and complexity, under the direct supervision of person authorised as clade jointer (transmission) order to develop the consequent point and produce of person authorised as clade jointer (transmission) order to develop the consequence of the con

Militarians of Comprehensive support of the Comprehensive support support of the Comprehensive support of the Comprehensive support of the Comprehensive support of the Comprehensive support support of the Comprehensive support support

Transmission Technologist Stream

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Songe of activities covered by this authorisation:

Who can on mean the network up the "Authorised person" and approach distances as stated in the Table A – from the Electrical Safety Rules

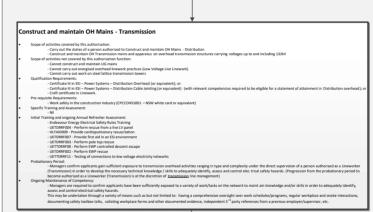
Act as a commission descend for ground work activities (including the Very panels) plant vigogenates)

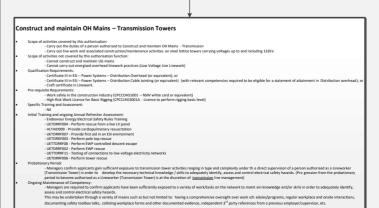
- Act as a commission descendence of the property of th
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Continue and marking primary upterns within a major unbastion (all equipment operated at voltages defined as INV)
Construct and marking entiring years within substance containing the equipment
Carry out IV testing on enteroid apparatus, and enteroid marking
Carry out IV testing on enteroid apparatus, and enteroid marking
Act as a commander recurse for exhibit or benefit or a variety (all enteroid and activation)
Act as a commander recurse for exhibit or benefit or any low voltage service conductors, apply temporary into listing material, exect barricading, or did by this substance function:
Cooperating of the primary of the primary of substance or distribution apparatus (cit away low voltage service conductors, apply temporary into listing material, exect barricading, or did by this substance function:
Cannot carry out construction or maintenance of distribution substances
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Specific Taxing and Applicaments

- Vivos safely in the construction inclusivy (CPCCCORESION – 150W white card or equivalent)
Specific Taxing and Applicaments
- Individual App
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Construct and maintain OH mains - Distribution • Scope of stribules covered by this authorization: - Who is nor near the network up to the "Authorized person" and approach distances as stated in the Table A - from the Electrical Selety Rules Handbook - Act as a nominated record for ground work Stribes (Including like 12 (17) was 12 (18) and 12 (18)







7.15 Authorisation Schedule 11 Live Work Authorisations





7.16 Accredited Service Provider Class Authorisation Function Matrix

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



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



8.0 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. If working for an Accredited Service Provider, you must also be registered as an employee with the Dept. of Planning, Industry & Environment.

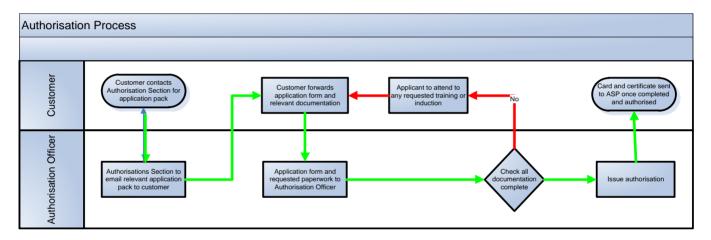
Can an authorised person hold an authorisation for multiple Companies?

Yes, a work can be authorised for multiple companies, but an Employee Registration Letter from the Department of Planning Industry and Environment must be submitted along with the application form.

How do I get authorised?

Authorisations are processed in accordance with this manual.

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 Dept of Planning, Industry and 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 Dept of Planning, Industry and 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 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: ASP Scheme and contestable works

What is the authorisations renewal period?

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

What does it mean if my authorisation has been suspended?

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

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

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

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

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

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

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

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

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

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

For externals, RTOs may be able to facilitate a similar RPL or RCC process or alternatively provide the required training.

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

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

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

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

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

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

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

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

Are there authorisation fees for Accredited Service Providers?

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

How do I obtain sealing pliers?

Endeavour Energy have moved away from supplying individual identification sealing pliers for new authorised personnel. Authorised personnel who already hold an Endeavour Energy supplied sealing plier can continue to seal switchboard equipment using their existing sealing pliers and seals. If you hold sealing pliers issued by another Energy Distributor, these can be used on our network, you will need to notify us of the seal number.

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 NSW Dept of Planning, Industry and Environment. Please take note that they come in packs of 250.

Notes:

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

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



Harcor Australia

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

What is 'Power of Choice' metering?

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

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

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

More information: <u>AEMO Power of Choice</u>

What happens with the current process?

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

Bulk Limit on Meter Issue:

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

Important Changes to Issuing of Load Control Devices:

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

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

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

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

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

9.0 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 Portal
- Endeavour Energy Website
- NSW Accredited Service Provider (ASP) Scheme and contestable works
- Service and Installation Rules of New South Wales October 2019
- Electricity Industry Safety Steering Committee Guidelines
- Safe Work NSW Asbestos Information
- Safe Work NSW Work Near Overhead Powerlines Code of Practice 2006
- Safe Work NSW Work Near Underground Assets Guide 2007
- Power of Choice AEMO



