



Australian Government

Department of Education, Employment and Workplace Relations

UETDRRF01A Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus

Release: 1

UETTDRRF01A Apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus

Modification History

Not Applicable

Unit Descriptor

Unit Descriptor

- 1)
 - 1.1) Descriptor

This Competency Standard Unit covers the knowledge and application of Electricity Supply Industry (ESI) safety rules and codes of practice for work on or near electrical apparatus it includes the application of relevant State and Territory safety rules, codes of practice and enterprise based procedures and how they apply in the context of transmission, distribution or rail work functions. It encompasses responsibilities for, health, safety and risk management processes at all operative levels and adherence to safety practices as part of the normal way of doing work.

Application of the Unit

Application of the Unit 4)

This competency standard unit shall be selected as part of an endorsed skill set for the purposes of refresher training and/or to meet regulatory and/or network requirements. Delivery and assessment of this unit should be undertaken within regard to the requirements of License to Practice (1.2 above), Prerequisite Competencies and Literacy and Numeracy skills (2 above) and the recommendations for concurrent assessment and relationship with other units (9.5 below).

Practice in the workplace and during training is also subject to regulations directly related to occupational health and safety and where applicable contracts of training such as apprenticeships.

Note:

1. Compliance with permits may be required in various jurisdictions and typically relates to the operation of plant,

Application of the Unit 4)

machinery and equipment such as elevating work platforms, powder operated fixing tools, power operated tools, vehicles, road signage and traffic control and lifting equipment. Permits may also be required for some work environments such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

2. Compliance may be required in various jurisdictions relating to currency in First Aid, confined space, lifting, risk safety measures etc

Licensing/Regulatory Information

1.2) License to practice

The skills and knowledge described in this unit may require a licence/registration to practice in the work place subject to regulations for undertaking of electrical work. Practice in workplace and during training is also subject to regulations directly related to Occupational Health and Safety, electricity/telecommunications/gas/water industry safety and compliance, environmental protection, anti discrimination and training. Commonwealth, State/Territory or Local Government legislation and regulations may exist that limits the age of operating certain equipment. ESI employees are required to maintain currency in this Unit for authorisation/approval to work on ESI Networks.

Pre-Requisites

Prerequisite Unit(s) 2)

2.1) Competencies

Granting of competency in this unit shall be made only after competency in the following unit(s) has/have been confirmed:

nil

Employability Skills Information

- Employability Skills** 3)
This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

- 6) Elements:** Elements describe the essential outcomes of a competency standard unit Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare to apply ESI safety rules, codes of practice and procedures for work on or near electrical apparatus	1.1 Relevant safety rules, codes of practice and procedures are identified and obtained
	1.2 Hazards and risk control measures for specific work functions/areas are identified and obtained.
	1.3 The requirement for access authority/work permits required for work are identified and obtained from appropriate personnel according to established procedures.
	1.4 Safety systems and equipment for work are prepared and placed to minimise and control hazards in accordance with established procedures

ELEMENT	PERFORMANCE CRITERIA
2 Carry out application of ESI safety rules, codes of practice and procedures for work on or near electrical apparatus	2.1 Workplace procedures and work instructions for controlling risk are followed.
	2.2 Safety rules, codes of practice and workplace procedures for induction to a worksite, are followed.
	2.3 Specific workplace systems and equipment isolation procedures are followed.
	2.4 Restricted workplace areas are identified including ingress and egress procedures.
	2.5 Emergency procedures are identified including assembly areas, communication systems including audible alarms and processes according to established procedures.

ELEMENT

PERFORMANCE CRITERIA

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| 3 Complete the application of ESI safety rules, codes of practice and procedures for work on or near electrical apparatus | 3.1 Processes for completing work are applied, access authority/work permits where required are completed in accordance with established procedures. |
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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

7) Essential Knowledge and Associated Skills (EKAS): This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of the application of ESI safety rules, codes of practice and procedures for work on or near electrical apparatus. All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies.

The extent of the essential knowledge and associated skills (EKAS) required is given in Volume 2 - Part 2.2 EKAS. It forms an integral part of this unit.

T2.5.5 Powerline clearances and approach distances

Evidence Guide

EVIDENCE GUIDE

9) This provides essential advice for assessment of the competency standard unit and must be read in conjunction with the Performance Criteria and the range statement of the competency standard unit and the Training Package Assessment Guidelines. The Evidence Guide forms an integral part of this Competency Standard Unit and shall be used in conjunction with all component parts of this unit and, performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment

9.1)

In accordance with the National Refresher Training Recognition Protocol for the Electricity Supply Industry, this unit is identified as a Refresher Training unit and is only available for use by industry to meet industry protocols and regulatory requirements.

Industry has defined Refresher Training as:

"A competency confirmation event which may include training, the purpose of which is to compensate for or prevent deterioration in a previously achieved standard of performance"

Under the protocol and the applicable State or Territory legislative and regulatory requirements, Electricity Supply Industry employees are required to maintain currency in this Unit for authorisation/approval to work on ESI Networks.

Industry accepts that opportunities to practice emergency procedures are generally restricted to simulated exercises in a controlled environment during competency confirmation programs.

The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries risk in deeming a person competent. Hence, sources of evidence need to be 'rich' in nature so as to minimise error in judgment.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed.

These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments.

An industry endorsed Learning Assessment Plan has been developed to support this unit.

EVIDENCE GUIDE

Critical aspects of evidence required to demonstrate competency in this unit

9.2)

Before the critical aspects of evidence are considered all prerequisites shall be met.

- Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated at each competency confirmation event.

In accordance with State and Territory regulations and the "Assessment Guidelines - UET09". Evidence shall also comprise:

A performance demonstrated within the timeframes typically expected of the procedure. In particular the assessment of this unit shall confirm that a candidate is able to:

- Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and range; and
- Demonstrate an understanding of the essential knowledge and associated skills as described in this unit to such an extent that the learner's performance outcome is reported in accordance with the preferred approach; namely a percentile graded result, where required by the regulated environment; and
- Demonstrate an appropriate level of employability skills; and
- Conduct work observing the relevant Anti Discrimination legislation, regulations, policies and workplace procedures; and
- Demonstrated performance across a representative range of contexts from the prescribed items below:

Range of tools/equipment/materials/procedures/workplaces/other variables		
Group No	The minimum number of items on which skill is to be demonstrated	Item List
A	All, to the satisfaction of	Application of SAD's to

EVIDENCE GUIDE

	the network operator's assessor	<ul style="list-style-type: none"> • Personnel • Vehicles • Insulated mobile plant • Non insulated mobile plant
B	All, to the satisfaction of the network operator's assessor	Hazard Identification Risk assessment&control Consultation&Communications Personal Protective Equipment Use of Safety observers Work within electric and magnetic fields
C	All, to the satisfaction of the network operator's assessor	Access Authority/Permits to work

Context of and specific resources for assessment

9.3)

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to safely undertake actual application of ESI safety rules, codes of practice and procedures for work on or near electrical apparatus in the workplace.

In addition to the resources listed above, in Context of and specific resources for assessment, evidence should show demonstrated competency working in realistic environment and a variety of conditions.

EVIDENCE GUIDE

Method of assessment

9.4)

This Competency Standard Unit shall be assessed by methods given in Volume 1, Part 3 "Assessment Guidelines".

Note:

Competent performance with inherent safe working practices is expected in the Industry to which this Competency Standard Unit applies. This requires that the specified essential knowledge and associated skills are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the essential knowledge and associated skills described in this unit.

Concurrent assessment and relationship with other units

9.5)

For optimisation of training and assessment effort, competence in this unit is not recommended to be assessed concurrently with any other unit.

Range Statement

RANGE STATEMENT

8) This relates to the competency standard unit as a whole providing the range of contexts and conditions to which the Performance Criteria apply. It allows for different work environments and situations that will affect performance.

This Competency Standard Unit shall be demonstrated in relation to the application of ESI safety rules, codes of practice and procedures for work on or near electrical apparatus and may include the following:

Applying work procedures and instructions as they apply to risk control and personal safety measures.

Participation in consultation processes, identifying hazards and implementing and monitoring control measures at the work site.

Application of minimum approach distances for personnel, vehicles and insulated/non insulated mobile plant.

Application of access procedures and or permit systems. (access authority/access permit/work permit)

Laying out and delineating a work area within a high risk work environment.

Application of control measures for spurious currents and voltages in inductive environments.

Work within electric and magnetic fields

It may also include the application of control measures to create equipotential work areas,

The following constants and variables included in the element/Performance Criteria in this unit are fully described in the Definitions Section 1 of this volume and form an integral part of the Range Statement of this unit:

- Appropriate and relevant persons
- Assessing risk
- Assessment
- Authorisation
- Confined space
- Emergency
- Established procedures
- Fall prevention
- Hazards
- Identifying hazards
- Inspect
- Legislation
- Notification
- OHS practices

RANGE STATEMENT

- OHS issues
- Permits and/or permits to work
- Personnel
- Requirements
- Testing procedures
- Work clearance systems

Unit Sector(s)

Not Applicable

2.2) Literacy and numeracy skills

2.2) Literacy and numeracy skills

Participants are best equipped to achieve this unit if they have reading, writing and numeracy skills indicated by the following scales. Description of each scale is given in Volume 2, Part 3 "Literacy and Numeracy"

Reading	3	Writing	3	Numeracy	3
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Competency Field

Competency Field 5)

Refresher Training Unit.