



Australian Government

Department of Education, Employment and Workplace Relations

UEENEEH147A Assess electronic apparatus compliance

Release: 1

UEENEEH147A Assess electronic apparatus compliance

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

1) Scope:

1.1) Descriptor

This unit covers assessing electronic apparatus for compliance with a standard and/or regulation for the purpose of certification or approval. The unit encompasses safe working practices, determining specified requirements, inspecting, setting up performance tests, evaluating inspection and test results and documenting evaluation outcomes.

Application of the Unit

Application of the Unit 2)

This unit is intended for competency development entry-level employment based programs incorporated in approved contracts of training or approved training programs. It is intended to apply to any formal recognition for this standard at the aligned AQF 6 level.

Licensing/Regulatory Information

License to practice 3)

The skills and knowledge described in this unit require a license to practice in the workplace where plant and equipment operate at voltage above 50 V a.c. or 120 V d.c. However other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to regulations directly related to occupational

License to practice**3)**

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, machinery and equipment such as elevating work platforms, powder operated fixing tools, power operated tools, vehicles, road signage and traffic control, lifting equipment and the like. 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 and risk safety measures

Pre-Requisites**Prerequisite Unit(s)****4)****Competencies****4.1)**

There are no prerequisite competencies for this unit.

Literacy and numeracy skills**4.2)**

Participants are best equipped to achieve competency in 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 5 Writing 5 Numeracy 5

Employability Skills Information

Employability Skills 5)

This unit contains Employability Skills

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this unit of competency is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

6) 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 evaluate electronic apparatus compliance.	1.1 OHS procedures for a given work area are identified, obtained and understood.
	1.2 Established OHS risk control measures and procedures are followed in preparation for the work.
	1.3 Examination and testing area is checked for safety hazards and risk control measures implemented in strict accordance with safety policy and procedures.
	1.4 Relevant documentation is obtained and read to determine the certification/approval specifications for which the equipment is to be assessed. (see note 1)
	1.5 Advice is sought from the work supervisor to ensure the work is co-ordinated effectively with others.

ELEMENT	PERFORMANCE CRITERIA
2 Evaluate electronic apparatus compliance	1.6 Tools, testing devices, and materials needed to carry out the work are obtained and checked for correct operation and safety.
	2.1 OHS risk control measures and procedures for carrying out the work are followed.
	2.2 The need to test or measure live is determined in strict accordance with OHS requirements and when necessary conducted within established safety procedures.
	2.3 Circuits/machines/plant are checked as being isolated where necessary in strict accordance OHS requirements and procedures.
	2.4 In depth knowledge of the operating requirements of the electronic apparatus under scrutiny is applied to the assessment process.
	2.5 Apparatus examination and tests are set up in accordance with established test methods and procedures for each particular parameter under scrutiny.
	2.6 Apparatus examination and tests are carried out methodically and results and comments systematically noted.
	2.7 Unexpected situations are dealt with safely and with the approval of an authorised person.
3 Complete work and document evaluate results.	2.8 Assessment is carried out without unnecessary damage to apparatus, circuits, the surrounding environment or services and using sustainable energy practices.
	3.1 OHS work completion risk control measures and procedures are followed.
	3.2 Work site is cleaned and made safe in accordance with established procedures.
3.3 Examination and test results are evaluated and non-compliance issues identified.	

ELEMENT**PERFORMANCE CRITERIA**

- 3.4 Examination, test results and comments on non-compliance issues are documented and reported to appropriate person(s) in accordance with established procedures.

Note 1

Examples of documentation are those specifying safety requirements, technical standard, as marketed technical performance, product quality endorsement standards and the like.

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

8) This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of safe working practices and assessing compliance of electronic apparatus.

All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies.

KS01-EH147A

Electronic apparatus compliance assessment

Evidence shall show an understanding of electronic apparatus compliance assessment, applying safe working practices and relevant Standards, Codes and Regulations to an extent indicated by the following aspects:

T1. Technical standards, regulations and codes for electronic apparatus

- Standards philosophy and format
- How to read and apply a standard
- Standards and Codes that apply to electronic apparatus
- Applying standards, regulations and codes

T2. Compliance certification

- the purposes of certification of equipment;
- the parties involved in the assessment/testing and certification of equipment, and
- the scheme for recognition of assessment/testing and certification

T3. Preparation required to assess equipment for compliance with Standards:

- documentation required prior to conducting conformity assessment;
- tests necessary to establish that an item of equipment conforms with relevant Standards;

T4. Compliance testing and assessment of equipment

- types of assessment tests
- test set ups and procedures.
- recording and reporting requirements of conformity assessment.

Evidence Guide

EVIDENCE GUIDE

9) The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package. .

The Evidence Guide forms an integral part of this unit. It must be used in conjunction with all parts of the unit and performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment 9.1)

Longitudinal competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the Industry-preferred model for apprenticeships. However, where summative (or final) assessment is used it must include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accord with industry and regulatory policy.

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.

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

Activities associated with normal everyday work influence decisions about how/how much the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practised. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included for Assessors in the Assessment Guidelines of this Training Package.

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 on at least two occasions in accordance with the 'Assessment Guidelines – UEE11'. Evidence shall also comprise:

- A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows 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 statement
 - Apply sustainable energy principles and practices as specified in the performance criteria and range statement
 - Demonstrate an understanding of the essential knowledge and associated skills as described in this unit. It may be required by some jurisdictions that RTOs provide a percentile graded result for the purpose of regulatory or licensing requirements.
 - Demonstrate an appropriate level of skills enabling employment
 - Conduct work observing the relevant Anti Discrimination legislation, regulations, policies and workplace procedures
- Demonstrated consistent performance across a representative range of contexts from the prescribed items below:
 - Assess compliance of electronic apparatus as described in 8) and including:
 - A Interpreting compliance documents.
 - B Setting up and conducting appropriate examinations and tests.
 - C Identifying non-compliance defects.
 - D Reporting examination and test results and non-compliance issues.

clearly and accurately.

E

Dealing with unplanned events by drawing on essential knowledge and skills to provide appropriate solutions incorporated in a holistic assessment with the above listed items.

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 undertake actual work as prescribed by this unit.

These should be part of the formal learning/assessment environment.

Note:

Where simulation is considered a suitable strategy for assessment, conditions must be authentic and as far as possible reproduce and replicate the workplace and be consistent with the approved industry simulation policy.

The resources used for assessment should reflect current industry practices in relation to assessing compliance of electronic apparatus.

Method of assessment 9.4)

This 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 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 skills described in this unit.

Concurrent assessment and relationship with other units 9.5)

For optimisation of training and assessment effort, competency development in this unit may be arranged concurrently with unit:

UEENEEG13 Assess electrical apparatus compliance
1A

Range Statement**RANGE STATEMENT**

10) This relates to the 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 unit shall be demonstrated by assessing a representative range of four different electronic apparatus.

Note:

Examples of apparatus are audio amplifiers, radio and televisions receivers, video displays, audio and video recording/replay devices, two-way radios, cell phones, instrumentation devices, control devices and the like.

Generic terms used throughout this Vocational Standard shall be regarded as part of the Range Statement in which competency is demonstrated. The definition of these and other terms that apply are given in Volume 2, Part 2.1.

Unit Sector(s)

Not applicable.

Competency Field

Competency Field 11)

Electronics

