



Australian Government

UEEEEC0051 Program and commission commercial video/audio systems

Release: 1

UEEEEC0051 Program and commission commercial video/audio systems

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to program and commission commercial video/audio systems.

It includes preparing to commission commercial video/audio systems, commissioning commercial video/audio systems, and completing and reporting on commissioning activities.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, skills and knowledge described in this unit require a relevant contract of training, such as an Australian Apprenticeship.

Additional and/or 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 work health and safety (WHS)/occupational health and safety (OHS) regulations.

Permits may also be required for some work environments, such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

No other licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEECD0019 Fabricate, assemble and dismantle utilities industry components

UEECD0020 Fix and secure electrotechnology equipment

UEECD0051 Use drawings, diagrams, schedules, standards, codes and specifications

UEECD0025 Lay wiring/cabling and terminate accessories for extra-low voltage (ELV) circuits

UEEEEC0040 Install commercial video/audio system components

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to commission commercial video/audio systems

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 WHS/OHS requirements and workplace procedures for relevant work area are identified, obtained and applied

1.2 Risk control measures are applied in accordance with workplace procedures prior to commencing work

1.3 Risks/hazards are identified, assessed and reported to relevant person/s, and control measures implemented

1.4 Extent of programming and commissioning is determined from reports, other relevant documentation and discussions with relevant person/s

1.5 Relevant person/s is consulted to ensure the work is coordinated effectively with others

1.6 Tools, equipment and testing devices required to program and commission video/audio systems are obtained in accordance with workplace procedures and checked for correct operation and safety

2 Commission commercial video/audio systems

2.1 Workplace risk control measures and procedures are applied

2.2 Need to test and measure live work is determined in accordance with WHS/OHS requirements and workplace procedures

2.3 Circuits/machines/plant are checked and isolated, as required, in accordance with WHS/OHS requirements and workplace procedures

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| | 2.4 | Audio/video devices are checked for correct location and alignment in accordance with workplace procedures and job specifications |
| | 2.5 | Functional settings are made for each audio/video apparatus in accordance with design specifications |
| | 2.6 | Audio/video system functions are tested in accordance with commissioning requirements |
| | 2.7 | Sources of audio/video system anomalies are identified and corrected |
| | 2.8 | Decisions for dealing with unexpected situations are made based on job specifications, work requirements and discussions with relevant person/s |
| | 2.9 | Methods for dealing with unplanned situations are selected on the basis of safety and specified work outcomes |
| | 2.10 | Commissioning activities are carried out efficiently without waste of materials, damage to apparatus, the surrounding environment or services applying sustainable energy practices |
| 3 | Complete and report commissioning activities | |
| | 3.1 | WHS/OHS work completion risk control measures and workplace procedures are followed |
| | 3.2 | Worksite is made safe in accordance with workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Commissioning commercial audio/video systems must include at least the following:

- two different commercial audio/video systems

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH137A Program and commission commercial video/audio systems.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>

Assessment Requirements for UEEEC0051 Program and commission commercial video/audio systems

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- setting apparatus functions
- testing system functions
- identifying and correcting function anomalies
- documenting 'as-installed' system correctly
- dealing with unplanned events
- applying relevant risk identification, assessment, reporting and control requirements
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- coordinating work with relevant person/s
- determining live testing/measurement requirements
- determining scope of work
- identifying and accessing materials, tools, apparatus and testing devices
- isolating circuits/machines/systems.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- commercial video/audio programming and commissioning, safe working practices and relevant standards, codes and regulations, including:
 - purpose of commissioning
 - commissioning planning and documentation
 - initial tests and adjustments
 - commissioning procedures and documentation
- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation

processes

- relevant WHS/OHS legislated requirements
- relevant workplace documentation.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment

Assessment must occur in suitable workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated suitable workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- resources that reflect current industry practices in relation to programming and commissioning commercial audio/video systems
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>