



Australian Government

UEEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises

Release: 1

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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 assemble and set up fixed video/audio components and systems in buildings and premises.

It includes preparing to install audio/video components and systems, installing audio/video components and systems, completing installation work and reporting.

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

No 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

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1 Prepare to install audio/video components and systems

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for relevant work area are identified, obtained and applied
- 1.2** WHS/OHS risk control measures are followed in preparation for the work
- 1.3** Safety hazards which have not previously been identified are reported and advice on risk control measures are sought from the work supervisor
- 1.4** Nature and location of the work is obtained from relevant person/s to determine the scope of work
- 1.5** Instructions for coordinating work with others is obtained from relevant person/s and applied
- 1.6** Materials required for the work are determined in accordance with workplace procedures
- 1.7** Tools, equipment and testing devices required for work are obtained and checked for correct operation and safety

2 Install audio/video components and systems

- 2.1** Workplace risk control measures and procedures are applied
- 2.2** Circuits/machines/plant are checked and isolated, as required, in accordance with WHS/OHS requirements and workplace procedures
- 2.3** Audio/video components are installed in accordance with relevant industry standards and job specifications with sufficient excess to affect terminations
- 2.4** Accessories are installed straight and square in required locations within acceptable tolerances
- 2.5** Cables and conductors are terminated at accessories in accordance with manufacturer specifications and regulatory requirements
- 2.6** Unplanned events are reported to relevant person/s in accordance with workplace procedures
- 2.7** Installation is conducted efficiently without waste of materials, damage to apparatus, circuits or the

surrounding environment applying sustainable energy practices

3 Complete installation work and report

- 3.1** WHS/OHS work completion risk control measures and procedures are followed
- 3.2** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3** Completion of installation is reported to relevant person/s 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.

Assembling and setting up fixed video/audio components and systems must include at least the following:

- assembling and setting up fixed audio/video systems in buildings and premises

Systems must include the following:

- surround sound and multi-room speakers
- central audio and home theatre components

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH106A Assemble and set up fixed video/audio components and systems in buildings and premises.

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 UEEEC0004 Assemble and set up fixed video/audio components and systems in buildings and premises

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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 two separate occasions and include:

- 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
- completing relevant documentation, including handing over all system/component documents to the customer
- connecting components in accordance with manufacturer instructions
- coordinating work with relevant person/s
- dealing effectively with unplanned events
- determining scope of work
- identifying and accessing materials, tools, apparatus and testing devices
- isolating circuits/machines/system
- placing and securing components and accessories accurately
- reading and interpreting drawings of circuit arrangements and component locations
- setting functional controls to customer's requirements
- terminating cable and conductors correctly
- testing functional operation.

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:

- relevant manufacturer specifications
- relevant safe work method statements (SWMS)/job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements

- relevant workplace documentation
- relevant workplace policies and procedures
- video/audio components and system assembly and setting up in buildings and premises, including:
 - electronic safe working practices
- audio reproduction electronic components, including:
 - graphic equalisers
 - power and integrated amplifiers
 - preamplifiers
- audio reproduction and speaker fundamentals
- audio/video recording and replay components repair basics
- audio/video control equipment
- relevant standards, codes and regulations
- sound reproduction fundamentals
- video systems installation.

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 suitable simulated 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 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 assembling and setting up fixed audio/video components and systems in buildings and premises
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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