



Australian Government

UEEEEC0040 Install commercial video/audio system components

Release: 1

UEEEEC0040 Install commercial video/audio system components

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 install commercial video/audio system components.

It includes preparing to install audio/video components and systems, installing audio/video system components, 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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare to install audio/video system components

- 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** 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** 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 are obtained from relevant person/s and applied
- 1.6** Materials required for 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 system components

- 2.1** Workplace risk control measures and procedures are applied
- 2.2** Circuits/equipment 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 effect terminations
- 2.4** Accessories are installed straight and square in the required locations in accordance with relevant industry standards and job specifications
- 2.5** Cables and conductors are terminated at accessories in accordance with manufacturer specifications and relevant industry standards
- 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 workplace procedures are followed
- 3.2** Worksite is cleaned and made safe in accordance with workplace procedures
- 3.3** Relevant person/s is notified of installation completion 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.

Installing commercial video/audio system components must include at least the following:

- installing and connecting one commercial audio/video system components in one building or premise, examples include:
 - dedicated audio and video facilities in meeting rooms
 - video conferencing facilities
 - centrally controlled audio/video facilities

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH110A Install commercial video/audio system components.

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 UEEEC0040 Install commercial video/audio system components

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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:

- accurately placing and securing components and accessories
- 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
- connecting apparatus and associated components to comply with requirements
- coordinating work with relevant person/s
- dealing effectively with unplanned events
- identifying and accessing materials, tools, apparatus and testing devices
- isolating circuits/machines/systems
- reading and interpreting drawings of system arrangements and component locations.

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 audio/video system installation, including:
 - audio reproduction electronic components:
 - graphic equalisers
 - power and integrated amplifiers
 - preamplifiers
 - audio reproduction
 - audio/video control equipment
 - audio/video recording and replay components basic faults and repairs
 - fundamentals of:
 - sound reproduction

- speakers
- loudspeakers and microphones
- professional audio electronics
- relevant industry standards, codes and regulations
- specialist audio/video cabling installation and termination
- video and display set-up
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures.

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 (PPE) equipment currently used in industry
- resources that reflect current industry practices in relation to installing commercial audio/video system components
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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