



Australian Government

UEEDV0001 Assemble and connect telecommunication frames and cabinets

Release: 1

UEEDV0001 Assemble and connect telecommunication frames and cabinets

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 connect telecommunication frames and cabinets.

It includes identifying, assembling, connecting and checking quality of assembled telecommunication frames and cabinets.

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

Competency Field

Data and Voice

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Identify telecommunication frame

PERFORMANCE CRITERIA

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

1.1 Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures

and cabinet	are identified and applied
	1.2 Hazards are identified, risks are assessed and control measures are implemented
	1.3 Work instructions and relevant diagrams are identified and applied
	1.4 Advice is sought from workplace supervisor to ensure work is coordinated with relevant person/s
	1.5 Materials required for work are obtained in accordance with workplace procedures
	1.6 Tools, equipment and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
2 Assemble and connect telecommunication frame and cabinet	2.1 WHS/OHS risk control workplace measures are followed
	2.2 Equipment is checked and isolated in accordance with WHS/OHS requirements and workplace procedures
	2.3 Frame/cabinet and communication components are fitted in accordance with work instructions, industry standards, manufacturer instructions and workplace procedures
	2.4 Interconnections are made in accordance with workplace procedures
	2.5 Installation and equipment are checked for compliance with relevant industry standards
	2.6 Completed communication frames/cabinets are checked/tested against manufacturer instructions, industry standards and workplace procedures
	2.7 Unplanned situations are responded to in accordance with workplace procedures and approval of authorised person/s
	2.8 Work is performed using sustainable energy principles and practices without wasting materials, damaging apparatus, surrounding environments or services in accordance with workplace procedures
3 Check quality of	3.1 WHS/OHS risk control measures for work completion

**assembled
telecommunication frame
and cabinet**

are followed

- 3.2** Quality of assembled frame/cabinet is checked/tested against work instructions, industry standards, manufacturer instructions and workplace procedures
- 3.3** Appropriate solutions are used where corrective actions to assembled components are required in accordance with workplace procedures
- 3.4** Work report forms are completed and appropriate person/s notified 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.

Unit Mapping Information

This unit replaces and is equivalent to UEENEEF115A Assemble and connect telecommunication frames and cabinets.

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 UEEDV0001 Assemble and connect telecommunication frames and cabinets

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 and performance criteria on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including implementing risk control measures
- applying sustainable energy principles and practices
- checking and testing quality of assembled telecommunication frame and cabinet, including adhering to quality procedures
- completing work report forms
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining and using appropriate solutions in accordance with workplace procedures
- following assembly instructions
- identifying, assembling and connecting telecommunication frame and cabinet
- isolating in accordance with relevant industry standards
- making connection without damaging apparatus
- obtaining relevant equipment, tools, testing devices and materials
- seeking advice from supervisor
- using manufacturer instructions.

Knowledge Evidence

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

- cabinet internal cable routing and management provisions
- cabinet ventilation requirements
- cabinet structure, including:
 - internal framework
 - cable entry
 - removable panels
 - multiple cabinets

- doors, locks and hinges
- mounting rails
- access to equipment and cabling
- earthing arrangements and methods
- mounting requirements for components, including:
 - rack units
 - patch panels
 - routers
 - servers
- communication cable and conductor terminations, including:
 - approved termination devices and sockets
 - special termination tools and their use
 - cable colour coding up to 100 pair indoor and outdoor cable
- methods of terminating cables, including:
 - cables less than twenty pair
 - twenty pair cable and greater
 - structured cables
 - coaxial cables
 - optical fibre cables
 - termination safety practices
- cable labelling devices, including quality checks and tests
- component installation and interconnections
- relevant job safety assessments or risk mitigation processes, including risk control measures
- relevant manufacturer specifications and instructions
- relevant tools, equipment and testing devices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation and diagrams
- relevant workplace policies and procedures
- sustainable energy principles and practices
- telecommunication cabinet assembly, cabling and terminations.

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 workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in 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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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