



Australian Government

UEECO0013 Prepare specifications for the supply of materials and equipment for electrotechnology projects

Release: 1

UEECO0013 Prepare specifications for the supply of materials and equipment for electrotechnology projects

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 write technical specifications for the supply of materials and equipment for electrotechnology projects.

It includes establishing performance requirements and prescribing parameters, and preparing specifications for the supply of materials and equipment. It also includes documenting and submitting quotations.

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

Pre-requisite Unit

Not applicable.

Competency Field

Commercial

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Determine performance and parameters of materials and equipment

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 are identified and applied
- 1.2** Extent of project work is determined from design brief

		specifications, other relevant documentation and discussions with appropriate person/s
	1.3	Performance and prescribed parameters of materials and equipment are established from design brief specifications, other relevant documentation and discussions with relevant person/s
	1.4	Required date for materials and equipment is determined from design brief specifications, other relevant documentation and discussions with relevant person/s
	1.5	Activities are planned to meet scheduled timeframes in consultation with relevant person/s
2 Prepare specifications for supply of materials and equipment	2.1	Manufacturer specifications and limitations of materials and equipment are sought
	2.2	Manufacturer specifications and limitations are compared with the established performance and prescribed parameters for materials and equipment
	2.3	Sources and availability of materials and equipment are established in accordance with workplace procedures
	2.4	Specifications for the supply of materials and equipment, including required evidence of compliance, are developed in accordance with workplace procedures
	2.5	Additional services are incorporated in the specifications, as required
	2.6	Solutions to unplanned events are implemented in accordance with workplace procedures
3 Document and submit quotation	3.1	Material and equipment supply documentation is forwarded to relevant person/s for processing in accordance with workplace procedures
	3.2	Material and equipment supply documentation is filed 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.

Preparing specifications for the supply of materials and equipment must include at least two different electrotechnology projects exceeding \$20,000 and can apply to any of the following electrotechnology disciplines:

- automation technologies
- computers
- data communications
- electrical
- electrical machines
- electronics
- fire protection
- instrumentation
- refrigeration and air conditioning
- renewable/sustainable energy
- security technology

Unit Mapping Information

This unit replaces and is equivalent to UEENEEC004B Prepare specifications for the supply of materials and equipment for electrotechnology projects.

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 UEECO0013 Prepare specifications for the supply of materials and equipment for electrotechnology projects

Modification History

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

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 work health and safety (WHS)/occupational health and safety (OHS) requirements
- ascertaining the extent of project work accurately
- dealing with suppliers and manufacturers
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining performance and parameters of materials and equipment
- determining specification evidence of compliance
- documenting and submitting quotations, including specifications
- identifying need for additional services and incorporating into specifications
- preparing specifications for supply of materials and equipment
- sourcing materials and equipment.

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:

- materials and equipment evidence of compliance for electrotechnology project
- performance-based specifications
- prescriptive specifications
- purpose and nature of specification
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications including materials and equipment performance and parameters
- relevant WHS/OHS legislated requirements
- relevant workplace documentation, including specifications

- relevant workplace policies and procedures
- services required with the supply of equipment.

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

Companion Volume implementation guides are found in VETNet - -

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