



Australian Government

UEECO0001 Estimate electrotechnology projects

Release: 1

UEECO0001 Estimate 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 estimate material and labour costs for competitive quotation/tenders for electrotechnology work exceeding \$AUD20,000.

It includes reading and understanding job specifications, adjusting for material take-offs, determining labour and site requirements, costing and documenting.

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 project scope

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 for a given work area are identified and applied |
| 1.2 | Hazards are identified, risks are assessed and control measures are implemented |

- | | | |
|---|------------|---|
| | 1.3 | Extent of the project is determined from design brief specifications, other relevant documentation and discussions with appropriate person/s |
| | 1.4 | Estimated completion date is determined from design brief specifications, other relevant documentation and discussions with appropriate person/s |
| | 1.5 | Project activities are planned to meet scheduled timeframes in consultation with relevant person/s |
| 2 Estimate electrotechnology project | 2.1 | Material take-offs are determined accurately and checked against job specifications |
| | 2.2 | Materials, labour and other costs are determined from relevant workplace documentation |
| | 2.3 | Sources and availability of materials and human resources required for the electrotechnology project are determined in accordance with workplace procedures |
| | 2.4 | Estimates are checked and revised for accuracy in costing against job specifications in consultation with relevant person/s |
| | 2.5 | Unplanned events are responded to in accordance with workplace procedures |
| 3 Document and submit quotation | 3.1 | Project estimates are documented in accordance with workplace procedures |
| | 3.2 | Quotation is forwarded to relevant person/s within specified timeframe |
| | 3.3 | Quotation documentation is filed in accordance with workplace policies and 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 UEENEEC005B Estimate 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 UEECO0001 Estimate 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 and performance criteria on at least two separate occasions and include:

- adjusting estimates
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements
- checking and documenting estimates
- creating, documenting, forwarding and filing quotations
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- documenting and submitting quotations
- estimating completion dates
- estimating electrotechnology project material and labour costs
- estimating electrotechnology projects for a competitive quotation/tender for which the value must exceed \$AUD20,000
- identifying risk control measures
- planning extent of projects
- sourcing materials and human resources
- working within timeframes.

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:

- contingency
- costing
- design brief and specifications
- documents used in estimating and costing margins
- material take-off methods, including a list of materials with quantities and types of material
- money labour rates method of costing
- life cycle costing analysis

- project estimates, including quotations and adjustments
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- resources to be quantified and costed
- resource (labour, plant, equipment and materials).

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>