



Australian Government

UEEEEC0043 Manage computer systems/electronics projects

Release: 1

UEEEEC0043 Manage computer systems/electronics 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 manage computer systems/electronics projects.

It includes establishing project scope, managing computer systems/electronics projects, and completing and reporting on projects.

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

Pre-requisite Unit

Not applicable

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Establish the scope of the projects

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 relevant work area are identified, obtained and applied |
| 1.2 | Project deliverables and objectives are determined from project planning, other relevant documentation and/or |

discussions with appropriate person/s

1.3 Work breakdown structure (WBS) is developed to identify component parts of the project in accordance with workplace procedures

1.4 Major milestones and deliverables are identified

1.5 Resources needed to meet project outcome are determined

1.6 Processes and procedures to manage the project scope are developed from discussions with relevant person/s and in accordance with project requirements

1.7 Risks are identified and strategies developed to ensure project outcomes are achieved to the required quality standards specified in the project requirements

1.8 Project plan is developed which meets project requirements and is in accordance with workplace standards and procedures

2 Manage computer systems/electronics projects

2.1 WHS/OHS programs are implemented and monitored in accordance with workplace procedures

2.2 Achievement of project outcomes is delegated to relevant person/s in accordance with project deliverables and objectives

2.3 Risk events are monitored and project plan strategies implemented to ensure that outcomes are achieved to the required quality standards specified in the project requirements

2.4 Procurement processes and procedures are monitored to ensure on-time supply of equipment and materials and in accordance with organisation policy

2.5 Verification of the project technical design modification, installation and/or maintenance of system and equipment parameters is frequently made against specifications and workplace procedures

2.6 Project progress is monitored against schedule, quality requirements and budget

2.7 Conflict/s at worksite and/or between stakeholders, clients and regulators are identified and managed in

		accordance with workplace procedures
	2.8	Variations are managed in accordance with agreed processes and project requirements
	2.9	Project records are maintained and progress reports prepared and forwarded to all relevant person/s
3 Complete projects and document	3.1	Project outcomes are reviewed against original plan, implemented risk strategies, project requirements, safety record and budget
	3.2	Project completion acceptance is sought from relevant person/s and handed over in accordance with organisation policy and 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.

Managing computer systems/electronics projects must include at least the following:

- one medium-sized electronics/computer systems project (recognised by a representative peer group of industry experts as medium sized), including:
 - design
 - modifications
 - installation and/or maintenance of systems and equipment
 - attributes that include management of:
 - safety
 - budget variation
 - personnel
 - resources
 - critical path timelines
 - completion documentation

WBS must include the following:

- identifying manageable components of a project, including their hierarchical structure

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH141A Manage computer systems/electronics 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 UEEEC0043 Manage computer systems/electronics projects

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, performance criteria and range of conditions on at least two separate occasions and include:

- accurately establishing the scope of the project
- coordinating work with relevant personnel
- dealing effectively with unplanned events
- developing project plans
- developing work breakdown structure (WBS)
- effectively managing resources and variations
- implementing relevant risk identification, assessment, reporting and control strategies
- implementing relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- maintaining records and submitting progress reports
- managing time effectively
- meeting project outcomes
- resolving conflicts
- verifying the project technical design, modification, installation and/or maintenance of system and equipment parameters.

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:

- computer systems/electronics project management, including:
 - concepts and practices of managing:
 - communication
 - contracts
 - customer/client relations
 - human and physical resources
 - procurement

- quality
- risk
- electronic/computer systems industry sector customs and practices
- financial management:
 - costs, variations and estimations
 - project budgets
- performance assessment and continuous improvement
- principles of project planning and management:
 - defining project parameters
 - project phases and the relationship between phases
 - project scope
 - project stakeholders and clients
 - quality requirements and limitations
 - resource requirements and limitations
 - time requirements and limitations
- relevant industry standards, codes and regulations
- time management
- relevant manufacturer specifications
- job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- WBS.

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 simulated suitable 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 managing electronic/computer

systems projects

- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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