



Australian Government

Assessment Requirements for UEECD0054

Write specifications for electronics and communications engineering projects

Release: 1

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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 one occasion and include:

- establishing the scope and parameters of the specification
- determining the impact of other related works
- developing the specification incorporating scenarios and all requirements
- identifying competencies required for the specification
- writing specifications
- negotiating alterations to the proposed specification successfully
- obtaining approval of the final specification
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including using risk control measures
- developing specification in accordance with workplace procedures
- preparing specification requirements
- reviewing specifications in accordance with specification scope inputs and adjusting to rectify anomalies.

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:

- electronics and communications engineering specification development and writing, including:
 - electronics and communications engineering specifications encompassing:
 - purpose and nature of specification
 - performance-based specifications
 - prescriptive specifications
 - acceptable evidence of compliance
 - additional service required with the supply of equipment

- suppliers and manufacturers encompassing:
 - documenting specification
- customer/client relations encompassing:
 - importance of customer/client relations
 - interpersonal skills that enhance customer/client relationships
 - dispute resolution
 - customer/client relations strategies
- basic computer functions encompassing:
 - starting up
 - selecting application
 - entering information
 - saving
 - printing
- research skills encompassing:
 - terminology - terminology used in a research workplace and terminology used in research-specific literature
 - theory – why conduct research - the history of research, past research successes, past research failures, research protocols and research practices
 - the research environment - standard research practices; industrial, legal, ethical, political and market environment considerations; legislation and regulation; and contractual obligations of all parties
 - planning to conduct research - concept development and/or research brief analysis; research objectives; research deliverables; research project plan; literature reviews; methodology development, including experimental design, technology selection and information management system selection
 - clients - identifying client viewpoints and stake in project; identifying client requirements and parameters; determining research budgets, timelines, milestones and quality attributes with clients
 - research, development and commercialisation - research and development goals versus commercialisation goals and realities, and research and development to inspire a commercialisation process
- relevant industry and workplace documentation
- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant WHS/OHS legislated requirements
- 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 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, facilities and equipment currently used in industry
- resources that reflect current industry practices in relation to writing specifications for electronics and communications engineering projects
- 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>