



Australian Government

Assessment Requirements for UEEEC0044

Modify - redesign electronics and communications systems

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:

- developing outlines of alternative redesigns
- developing the modified/redesigned system within the safety and functional requirements and budget limitations
- documenting and presenting modifications/redesigns effectively
- successfully negotiating system alteration requests
- obtaining approval for final modified/redesigned system
- dealing with unplanned events
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, workplace procedures and practices, including using of risk control measures
- applying sustainable energy principles and practices.

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:

- electronic and communications engineering design processes
- functional and non-functional requirements of a customer encompassing:
 - scope of the project
 - non-functional requirements, including:
 - economics (time and cost), including total life cycle costs
 - design
 - implementation (construction)
 - maintenance (operation)
 - decommissioning (recycling)
 - aesthetics (quality)
 - design objectives (specifications)

- specifications by defining the problem and producing a solution to satisfy the customer
- creation of the design plan through solution synthesis by selecting or creating the solution
- analysis
- optimisation of the proposed solution
- validations of the resulting design against the customer's needs
- implementation of the selected design
- project to be carried out in accordance with current WHS/OHS procedures
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- 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 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 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 modifying and redesigning electronics and communications systems
- 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>