



Australian Government

Assessment Requirements for UEECS0025 Modify/redesign industrial computer 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 two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - using risk control measures
- checking work to ensure no damage and/or waste to apparatus, environment, materials and services
- consulting with relevant person/s to ensure work is coordinated effectively
- dealing with unplanned events in consultation with relevant person/s and job specifications
- determining limitations and operation of the system to be modified
- developing outlines of alternative designs
- developing the modified/redesigned system within safety and functional requirements and budget considerations
- discussing alternative modification arrangements
- documenting and presenting modifications/redesigns
- documenting specifications and work instructions for the modifications
- generating modification/redesign of computer system/s
- identifying system operating parameters by reviewing system specifications and component technical data
- obtaining approval for final modified/redesigned system
- obtaining tools, equipment, applications and testing devices and checking for correct operation and safety
- preparing to modify/redesign of computer system/s
- using sustainable energy 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:

- design objectives (specifications)
- functional and non-functional requirements of customer/s
- implementation of the selected design
- optimisation of the proposed solution
- problem-solving techniques
- relevant analysis
- relevant computer system and modifications
- relevant industry standards
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications and installation instructions
- relevant materials, apparatus, environment and services
- relevant modification/redesign specifications?
- relevant system limitations and operation
- relevant system operating parameters
- relevant tools, equipment, applications and testing/measuring devices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace instructions, policies and procedures
- sustainable energy principles
- validations of the resulting design.

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 modifying/redesigning computer 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>