



Australian Government

Assessment Requirements for UEECS0017 Develop industrial control programs for microcomputer equipped devices

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
- completing documentation and presenting program development effectively
- dealing with unplanned events in accordance with problem-solving techniques and workplace procedures
- determining development work requirements
- developing control program within safety and functional requirements and budget limitations
- identifying the appropriate development tools and software
- obtaining approval for final program
- preparing to develop control programs for microcomputer equipped devices
- selecting devices/components compatibility.

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:

- problem-solving techniques
- programming terms, including:
 - complex data types and structures
 - documentation and debugging
 - interfacing high-level languages to assembler
 - interrupt service routines
 - language levels and their features
 - language programming
 - language simulators and emulators
 - modular programming

- relevant manufacturer specifications
- relevant job safety assessments or risk mitigation processes
- relevant tools and software
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace instructions, 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 developing control programs for microcomputer equipped devices
- 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>