



Australian Government

Assessment Requirements for UEEIC0032 Set up electronically controlled robotically operated complex systems

Release: 1

Assessment Requirements for UEEIC0032 Set up electronically controlled robotically operated complex systems

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 problem-solving techniques
- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including:
 - implementing workplace procedures and practices
 - using of risk control measures
- planning set-up of electronically controlled and robotically operated complex systems
- documenting and reporting on the results of the set-up and actions taken
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- determining strategies for analysing circuit and robot performance effectively
- documenting instruction for implementing any actions resulting from the analysis that incorporates risk control measure to be followed
- documenting justification of actions to be implemented in accordance with relevant industry standards and workplace procedures
- identifying the operation of electronic and robot controls
- inspecting and testing the results of the analysis
- obtaining circuit control and robot parameters, specifications and performance requirements appropriate to each situation.

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 interfacing to robotic processes
- interfacing electronics with robot functions, including:
 - robot types and selection and pre-selection planning
 - robot installation, including pre-installation design, layout and system documentation

- interfacing of robot controller with other external control systems
- robot sensor devices, characteristics and application
- diagnostic functions
- maintenance scheduling and procedures
- special features, including safety, palletising and sub-routines
- relevant job safety assessments or risk mitigation processes
- relevant manufacturer specifications
- relevant problem-solving techniques
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- 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, equipment currently used in industry
- resources that reflect current industry practices in relation to setting up electronically controlled and robotically operated complex 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>