



Australian Government

UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices

Release: 1

UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices

Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to assemble, enter and verify operating instructions in microprocessor equipped device with simple inbuilt programming functions ensuring the device operates as intended.

It includes working safely, checking device installation, following written and oral instructions and workplace procedures, and completing necessary documentation.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

Competency Field

Instrumentation & Control

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to assemble and enter operating instructions

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1** Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures for a given work area are identified and applied
- 1.2** Hazards are identified, risks assessed and control

		measures implemented
	1.3	Safety hazards not previously identified are reported on job safety assessment and advice on risk control measures is sought from supervisor
	1.4	Supervisor/customers are consulted to determine which functions of the device are used and the parameter of each
	1.5	Tools, equipment and testing devices needed to carry out the work are obtained and checked for correct operation and safety in accordance with workplace procedures
	1.6	Device installation is checked for compliance with job specification and regulations where required
2 Assemble and enter operating instructions	2.1	WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
	2.2	Circuits/machines/plant are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
	2.3	Required status of each function of the device is entered and their parameters set in accordance with manufacturer programming instructions
	2.4	Entered data is checked in accordance with specifications stated by work supervisor/customer
	2.5	Unplanned situations are responded to in accordance with workplace procedures and approval of an authorised person/s
3 Test device operation and report	3.1	Device operation is tested in accordance with workplace procedures
	3.2	Operating anomalies are identified and corrected in accordance with workplace procedures
	3.3	WHS/OHS work completion risk control measures and workplace procedures are followed
	3.4	Worksite is cleaned and made safe in accordance with workplace procedures
	3.5	Work completion is documented and appropriate person/s notified in accordance with workplace

procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Assembling, entering and verifying operating instructions must include at least two of the following types of microprocessor equipped devices with inbuilt icon based programmable functions:

- programmable relays
- timers
- temperature controllers
- detection devices for security and fire
- programmable logic controller (PLC)

Unit Mapping Information

This unit replaces and is equivalent to UEENEEI116A Assemble, enter and verify operating instructions in microprocessor equipped devices.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>

Assessment Requirements for UEEIC0002 Assemble, enter and verify operating instructions in microprocessor equipped devices

Modification History

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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:
 - implementing risk control measures
 - applying safe working practices
- completing required documentation
- assembling, entering and verifying operating instructions in basic microprocessor equipped devices
- identifying non-compliance conditions of device installation
- isolating electrical components in accordance with workplace procedures
- correcting programming anomalies
- testing, entering functions, verifying device operation parameters correctly and reporting
- dealing with unplanned events/situations in accordance with workplace procedures in a manner that minimises risk to personnel and equipment
- using required operating functions and parameters.

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:

- digital controllers, including:
 - types
 - block diagram of controller
 - applications
 - terms
- controller input and output equipment, including:
 - input sensors (transducers)
 - current loop concepts

- output current and voltage ratings
- supplementary solid-state relays/contactors
- installation of microprocessor equipped device/s, including:
 - types of input sensors
 - wiring
 - mounting techniques
 - terminal types
 - output current protection
- configuration and digital controller set-up, including:
 - manufacturer's data
 - testing
- microprocessor equipped devices including simple programmable relays, timers, temperature controllers, switches and basic detection devices for security and fire systems
- operating instructions in basic microprocessor equipped devices
- function
- equipment and tools relating to testing of microprocessor equipped devices
- relevant workplace documentation
- relevant workplace policies and procedures
- risk control measures, including safe working practices
- techniques for resolving programming anomalies.
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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 other simulations
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

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