



Australian Government

UEECS0004 Commission industrial computer systems

Release: 1

UEECS0004 Commission industrial computer systems

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 commission industrial computer systems.

It encompasses applying safe working practices, testing system parameters, adjusting to assure optimum performance, following workplace procedures, and documenting final adjustment parameters and settings.

The skills and knowledge described in this unit require a licence or permit to practice in the workplace where work is carried out on electrical installations which are designed to operate at voltages greater than 50 volt (V) alternating current (a.c.) or 120 V direct current (d.c.).

Competency development activities in this unit are subject to regulations directly related to licensing. Where a licence or permit to practice is not held, skills and knowledge described in this unit require a relevant contract of training, such as an Australian Apprenticeship.

Additional and/or other conditions may apply in some jurisdictions subject to regulations related to electrical work. Practice in the workplace and during training is also subject to work health and safety (WHS)/occupational health and safety (OHS) regulations.

Permits may also be required for some work environments, such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

No other 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

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to commission computer systems

PERFORMANCE CRITERIA

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

- 1.1** WHS/OHS processes and workplace procedures for a given work area are identified, obtained and applied
- 1.2** WHS/OHS risk control measures and workplace procedures in preparation for the work are followed
- 1.3** Safety hazards that have not previously been identified are noted and risk control measures implemented
- 1.4** Relevant person/s is consulted to ensure work is coordinated effectively with others involved on the worksite
- 1.5** System operating parameters are identified by reviewing system specifications and component technical data
- 1.6** Tools, equipment, applications and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 1.7** Preparatory work is checked to ensure no damage has occurred in accordance with workplace procedures
- 1.8** Circuits are checked and isolated in accordance with WHS/OHS requirements and workplace procedures

2 Commission computer systems

- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
- 2.2** Testing/measuring devices are connected and set up in accordance with relevant industry standards
- 2.3** Measurements and adjustments are made to computer equipment to provide optimum system performance in accordance with system specifications and/or relevant industry standards
- 2.4** Decisions for dealing with unplanned situations are dealt with in consultation with relevant person/s and job specifications in accordance with relevant industry standards

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| | 2.5 | Methods for dealing with unexpected situations are selected on the basis of safety and specified work outcomes |
| | 2.6 | Systems commissioning workplace procedures are performed in accordance with relevant industry standards |
| | 2.7 | Commissioning is carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy principles |
| 3 Complete and report commissioning activities | 3.1 | WHS/OHS risk control work completion measures and workplace procedures are followed |
| | 3.2 | Adjustment settings are documented in accordance with workplace procedures |
| | 3.3 | Worksite is cleaned and made safe in accordance with workplace procedures |
| | 3.4 | Commissioning results and work completion are notified to relevant person/s 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.

Commissioning industrial computer systems must include at least two of the following:

- different types of computer systems
- associated components
- controls

Unit Mapping Information

This unit replaces and is equivalent to UEENEED144A Commission industrial computer

systems.

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 UEECS0004 Commission industrial computer systems

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:
 - using risk control measures
- checking and isolating circuits
- checking work to ensure no damage and/or waste to apparatus, environment, materials and services
- commissioning systems in accordance with workplace procedures
- connecting and setting up testing/measuring devices
- dealing with unplanned events in consultation with relevant person/s and job specifications
- consulting with relevant person/s to ensure work is coordinated effectively
- documenting adjustment settings in accordance with workplace procedures
- identifying system performance parameters by reviewing system specifications and component technical data
- measuring and adjusting computer equipment to provide optimum system performance
- obtaining tools, equipment, applications and testing devices required for work
- preparing to commission computer systems
- 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:

- problem-solving techniques
- relevant commissioning, including:
 - commissioning, planning and documentation
 - purpose of commissioning
 - workplace procedures for commissioning systems

- relevant industrial computer systems
- relevant industry standards
- relevant manufacturer specifications and installation instructions
- relevant materials, apparatus, environment and services
- relevant job safety assessments or risk mitigation processes
- relevant system operating parameters
- relevant tools, equipment, applications and testing/measuring devices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- sustainable energy principles.

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 commissioning 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>