



Australian Government

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.

Application

This unit involves the skills and knowledge required to modify/redesign industrial computer systems.

It includes applying safe working practices, identifying system parameters, modifying systems, following procedures and documenting final modifications for approval.

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 modify/redesign 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 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** Limitations and operation of the system to be modified are determined from specifications and manufacturers' data
- 1.7** Modification is determined from measurements, tests, inspections, system limitations and relevant industry requirements
- 1.8** Specifications and work instructions for the modifications are documented in accordance with workplace procedures
- 1.9** Tools, equipment, applications and testing devices required for work are obtained in accordance with workplace procedures and checked for correct operation and safety
- 1.10** Preparatory work is checked to ensure no damage has occurred in accordance with workplace procedures

2 Generate modification/redesign of computer systems

- 2.1** WHS/OHS risk control measures and workplace procedures for carrying out the work are followed
- 2.2** Alternative modification arrangements are discussed

with relevant person/s

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| 2.3 | Safety, functionality and economic considerations are incorporated in the proposed modification design |
| 2.4 | Proposed modification for alteration of the system/s and specifications is documented in accordance with relevant industry standards |
| 2.5 | Changed outcomes in the use and operation of the system/s of the proposed modification are documented |
| 2.6 | Unplanned situations are dealt with in consultation with relevant person/s and job specifications in accordance with relevant industry standards |
| 2.7 | Methods for dealing with unexpected situations are selected on the basis of safety and specified work outcomes |
| 2.8 | Modification/redesign is carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services and using sustainable energy principles |
| 3 Complete and report modification/redesign activities | |
| 3.1 | WHS/OHS risk control work completion measures and workplace procedures are followed |
| 3.2 | Proposed modification is checked in accordance with workplace procedures and relevant industry standards |
| 3.3 | Worksite is cleaned and made safe in accordance with workplace procedures |
| 3.4 | Proposed modification is submitted for workplace and relevant industry standard approval |
| 3.5 | Approved modification/redesign documents are completed and stored in accordance with workplace procedures and relevant industry standards |

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.

Modifying/redesigning computer systems must include at least two of the following:

- computer systems
- associated components
- applications
- controls

Unit Mapping Information

This unit replaces and is equivalent to UEENEED145A Modify-redesign of 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>