



Australian Government

UEECS0013 Develop and validate biometric equipment/systems installation

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 develop and validate biometric equipment/systems installation.

It includes working safely, identifying operating parameters, following instructions, validating biometric equipment/systems installation and documenting outcomes.

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

Pre-requisite Unit

Not applicable

Competency Field

Computer Systems

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to develop and validate biometric equipment/systems installation

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, obtained and applied
- 1.2** Technical factors relevant to the system installation in

criminal, civil and commercial settings are identified

- 1.3** Scope of the biometric system installation and factors affecting the integration and application of proprietary or open source packages are identified and evaluated in accordance with workplace procedures
- 1.4** Existing and planned technical and environmental requirements are evaluated and documented in accordance with workplace procedures
- 1.5** Work team/group is assembled of relevant persons in accordance with work requirements and workplace procedures
- 1.6** Existing and projected business model, organisational and information technology management structures and legal aspects of biometrics are analysed in accordance with workplace procedures and relevant industry standards
- 1.7** Activities are planned in accordance with workplace procedures for timelines and in consultation with others involved
- 1.8** Correct operation and safety of software, tools equipment and testing devices required to carry out work are obtained and checked in accordance with relevant industry standards
- 1.9** Work supervisor and/or customer/s are consulted to determine functions and parameters of the system and confirmation documented in accordance with workplace procedures

2 Develop and validate biometric equipment/systems installation with relevant instructions

- 2.1** Biometric system is developed with relevant technology of biometric systems, information technology, network security, installation performance standards, compliance methods and service equipment in accordance with workplace procedures and relevant industry standards
- 2.2** Development process for installation, equipment, instructions and validation requirements of the biometric system are evaluated in accordance with workplace procedures and relevant industry standards
- 2.3** Safety, functional and budgetary requirements are incorporated in the installation plan, analysed and evaluated in accordance with workplace procedures and

- relevant industry standards
- 2.4** Equipment required for the biometric system are validated in accordance with the biometric system installation and workplace procedures
 - 2.5** Australian and international standards and/or codes of practice are used to evaluate compliance
 - 2.6** Status and parameters of function system devices are entered in accordance with workplace procedures, manufacturer instructions and work requirements
 - 2.7** Location of device/s in the installation of the biometric system is tested for correct operation of system functions and documented in accordance with workplace procedures
 - 2.8** Unplanned situation/s are responded to in accordance with relevant industry standards and workplace procedures
- 3 Validate and report on biometric equipment/systems installation**
- 3.1** Biometric system is tested in accordance with WHS/OHS requirements, relevant industry standards and workplace procedures
 - 3.2** Operating anomalies are identified and reported in accordance with workplace procedures
 - 3.3** System malfunctions are identified during testing using techniques in accordance with relevant industry standards and workplace procedures
 - 3.4** Approaches to solving issues/problems are analysed to provide most effective solutions
 - 3.5** Work completion is documented and relevant 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.

Developing biometric system installation, instructions and validating requirements of biometric equipment/systems must include at least two of the following features:

- securing computer networks
- database design
- measurement of a biometric system
- equipment requirements and instructions

Unit Mapping Information

This unit replaces and is equivalent to UEENEED155A Develop and validate biometric equipment/systems installation.

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 UEECS0013 Develop and validate biometric equipment/systems installation

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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 industry standards and/or codes of practice
- applying relevant work health and safety (WHS)/occupational health and safety (WHS/OHS) requirements, including the use of risk control measures
- assembling work group/team
- correcting system anomalies effectively
- dealing with unplanned situations
- developing and validating biometric equipment/systems installation with relevant instructions
- documenting and recording results in accordance with workplace procedures
- entering functions and parameters correctly
- identifying equipment requirements and instructions
- evaluating operating functions and parameters
- evaluating technology techniques and applications
- identifying technical requirements for the design and system rollout in criminal, civil and commercial settings
- incorporating safety, functional and budgetary requirements into installation design plan, analysis and evaluation
- preparing to develop and validate biometric equipment/systems installation
- selecting appropriate equipment
- testing and verifying system operation
- validating and reporting on biometric equipment/systems installation.

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:

- compliance requirements for assuring information technology network security and capital planning measures
- compliance requirements for implementing security on personal computers and computer

networks

- compliance requirements for securing voice over the internet
- deployment principles for rollout of biometrics systems
- laws, standards and compliance guidelines
- measurement of a biometric system
- problem-solving techniques
- relevant criminal, civil and commercial settings
- relevant industry standards
- relevant manufacturer specifications and operating instructions
- relevant job safety assessments or risk mitigation processes
- relevant software, tools equipment and testing devices
- relevant WHS/OHS legislated requirements
- relevant workplace documentation
- relevant workplace policies and procedures
- security implementation
- technical principles, parameters and processes in identity recognition
- technology applications used in forensics, genetics, civil and commercial environments and government departments for verification of identities
- typical selection, evaluation and testing criterion and methods of biometrics equipment.

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 and validating biometric equipment/systems installation
- applicable documentation, including workplace procedures, equipment specifications, regulations, codes of practice and operation manuals.

Links

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