

UEENEEH156A Program and commission commercial security closed circuit television systems

Release: 2



UEENEEH156A Program and commission commercial security closed circuit television systems

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

1) Scope:

1.1) Descriptor

This unit covers installation and testing of security closed circuit television (CCTV) systems typically used in commercial buildings and premises The unit encompasses working safely, following specifications and security observation scenarios, programming security functions, using circuit diagrams and schedules, and providing as-programmed document.

Application of the Unit

Application of the Unit 2)

This unit is intended as an additional competency to relevant competencies previously acquired. It is suitable for employment-based programs under an approved contract of training at the aligned AQF 3 level or higher.

Licensing/Regulatory Information

License to practice

3)

The skills and knowledge described in this unit require a license to practice in the workplace where plant and equipment operate at voltage above 50 V a.c. or 120 V d.c. However 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 regulations directly related to occupational

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License to practice

3)

health and safety and where applicable contracts of training such as apprenticeships.

Note:

- 1. Compliance with permits may be required in various jurisdictions and typically relates to the operation of plant, machinery and equipment such as elevating work platforms, powder operated fixing tools, power operated tools, vehicles, road signage and traffic control, lifting equipment and the like. Permits may also be required for some work environments such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.
- 2. Compliance may be required in various jurisdictions relating to currency in First Aid, confined space, lifting and risk safety measures.

Pre-Requisites

Prerequisite Unit(s)

Competencies

4.1)

4)

Granting competency in this unit shall be made only after competency in the following unit(s) has/have been confirmed.

UEENEE1 Apply Occupational Health and Safety
01A regulations, codes and practices in the
workplace

UEENEE1 Fabricate, dismantle, assemble of utilities 02A industry components

UEENEE1 Fix and secure electrotechnology 05A equipment

UEENEE1 Use drawings, diagrams, schedules,

o7A standards, codes and specifications

UEENEEH1 Assemble and set up basic security systems 50A

UEENEEH1 Enter instructions and test wired and

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Prerequisite Unit(s) 4)

52A wireless security systems

For the full prerequisite chain details for this unit please refer to Table 2 in Volume 1, Part 2

Literacy and numeracy skills

4.2)

Participants are best equipped to achieve competency in this unit if they have reading, writing and numeracy skills indicated by the following scales. Description of each scale is given in Volume 2, Part 3 'Literacy and Numeracy'

Reading 4 Writing 4 Numeracy 4

Employability Skills Information

Employability Skills 5)

This unit contains Employability Skills

The required outcomes described in this unit of competency contain applicable facets of Employability Skills. The Employability Skills Summary of the qualification in which this unit of competency is packaged will assist in identifying Employability Skill requirements.

Elements and Performance Criteria Pre-Content

6) Elements describe the essential outcomes of a competency standard unit

Performance Criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the Evidence Guide.

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Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- 1 Prepare to program and commission CCTV systems
- 1.1 OHS procedures for a given work area are identified, obtained and understood.
- 1.2 Established OHS risk control measures and procedures are followed in preparation for the work.
- 1.3 Safety hazards which have not previously been identified are documented and risk control measures devised and implemented in consultation with appropriate personnel.
- 1.4 The extent of programming and commissioning is determined from reports and other documentation and fro discussion with appropriate personnel
- 1.5 Appropriate personnel are consulted to ensure the work is co-ordinated effectively with others involved on the work site
- 1.6 Tools, equipment and testing devices needed to program and commission are obtained in accordance with established procedures and checked for correct operation and safety.
- 2 Program and commission CCTV systems
- 2.1 OHS risk control measures and procedures for carrying out the work are followed.
- 2.2 The need to test or measure live is determined in strict accordance with OHS requirements and when necessary conducted within established safety procedures
- 2.3 Circuits/machines/plant are checked as being isolated where necessary in strict accordance OHS requirements and procedures
- 2.4 Security closed circuit television functions are entered into the system in accordance with design specifications.
- 2.5 Security closed circuit television devices are checked for correct location and alignment.

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ELEMENT

PERFORMANCE CRITERIA

- 2.6 Security closed circuit televisions are tested in accordance with commissioning requirements.
- 2.7 Sources of closed circuit television anomalies are identified and corrected.
- 2.8 Decisions for dealing with unexpected situations are made from discussions with appropriate persons and job specifications and requirements.
- 2.9 Methods for dealing with unexpected situations are selected on the basis of safety and specified work outcomes.
- 2.10 Programming and commissioning activities are carried out efficiently without waste of materials or damage to apparatus and the surrounding environment or services and using sustainable energy practices.
- 3 Complete and report 3.1 programming and commissioning activities 3.2
 - .1 OHS work completion risk control measures and procedures are followed.
 - Work site is made safe in accordance with established safety procedures.
 - 3.3 'As-installed' security closed circuit television system is documented and an appropriate person or persons notified in accordance with established procedures

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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

8) This describes the essential skills and knowledge and their level, required for this unit.

Evidence shall show that knowledge has been acquired of safe working practices and programming and commissioning commercial security closed circuit television (CCTV) systems.

All knowledge and skills detailed in this unit should be contextualised to current industry practices and technologies.

KS01-EH156A programming

Security systems closed circuit television

Evidence shall show an understanding of security systems access control programming to an extent indicated by the following aspects:

- T1 Vender programming codes and functions encompassing:
- Input/output instruction
- Variable
- Timers
- · Limitations of vender software
- T2 Program loading methods using a personal computer
- T3 Program testing methods
- T4 Evidence shall show an understanding of OHS enterprise responsibilities to an extent indicated by the following aspects:
- Provisions of relevant health and safety legislation
- Principles and practice of effective occupational health and safety management
- Management arrangements relating to regulatory compliance
- Enterprise hazards and risks, control measures and relevant expertise required
- Characteristics and composition of workforce and their impact on occupational health and safety management
- Relevance of enterprise management systems to occupational health and safety management
- Analysis of working environment and design of appropriate occupational health and safety management systems
- Analysis of relevant data and evaluation of occupational health and safety system effectiveness
- Assess resources to establish and maintain occupational health and safety management systems.

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Evidence Guide

EVIDENCE GUIDE

9) The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

The Evidence Guide forms an integral part of this unit. It must be used in conjunction with all parts of the unit and performed in accordance with the Assessment Guidelines of this Training Package.

Overview of Assessment

9.1)

Longitudinal competency development approaches to assessment, such as Profiling, require data to be reliably gathered in a form that can be consistently interpreted over time. This approach is best utilised in Apprenticeship programs and reduces assessment intervention. It is the Industry-preferred model for apprenticeships. However, where summative (or final) assessment is used it must include the application of the competency in the normal work environment or, at a minimum, the application of the competency in a realistically simulated work environment. It is recognised that, in some circumstances, assessment in part or full can occur outside the workplace. However, it must be in accord with industry and regulatory policy.

Methods chosen for a particular assessment will be influenced by various factors. These include the extent of the assessment, the most effective locations for the assessment activities to take place, access to physical resources, additional safety measures that may be required and the critical nature of the competencies being assessed.

The critical safety nature of working with electricity, electrical equipment, gas or any other hazardous substance/material carries risk in deeming a person competent. Sources of evidence need to be 'rich' in nature to minimise error in judgment.

Activities associated with normal everyday work influence decisions about how/how much the data gathered will contribute to its 'richness'. Some skills are more critical to safety and operational requirements while the same skills may be more or less frequently practised. These points are raised for the assessors to consider when choosing an assessment method and developing assessment instruments. Sample assessment instruments are included for Assessors in the Assessment Guidelines of this Training Package.

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Critical aspects 9.2) of evidence required to demonstrate competency in this unit

Before the critical aspects of evidence are considered all prerequisites shall be met.

Evidence for competence in this unit shall be considered holistically. Each Element and associated performance criteria shall be demonstrated on at least two occasions in accordance with the 'Assessment Guidelines – UEE11'. Evidence shall also comprise:

- A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to:
 - Implement Occupational Health and Safety workplace procedures and practices, including the use of risk control measures as specified in the performance criteria and range statement
 - Apply sustainable energy principles and practices as specified in the performance criteria and range statement
 - Demonstrate an understanding of the essential knowledge and associated skills as described in this unit. It may be required by some jurisdictions that RTOs provide a percentile graded result for the purpose of regulatory or licensing requirements.
 - Demonstrate an appropriate level of skills enabling employment
 - Conduct work observing the relevant Anti Discrimination legislation, regulations, polices and workplace procedures
- Demonstrated consistent performance across a representative range of contexts from the prescribed items below:
 - Program and commission commercial security closed circuit television (CCTV) systems as described in 8) and including:

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A Entering system functions.

B Testing closed circuit television functions.

C Identifying and correcting function anomalies.

D Documenting 'as-installed' system correctly.

E Dealing with unplanned events by drawing on essential

knowledge and skills to provide appropriate solutions incorporated in a holistic assessment with the above listed

items.

Note:

Successful completion of relevant vendor training may be used to contribute to evidence on which competency is deemed. In these cases the alignment of outcomes of vendor training with performance criteria and critical aspects of evidence shall be clearly identified.

Context of and specific resources for assessment

9.3)

This unit should be assessed as it relates to normal work practice using procedures, information and resources typical of a workplace. This should include:

- OHS policy and work procedures and instructions.
- Suitable work environment, facilities, equipment and materials to undertake actual work as prescribed by this unit.

These should be part of the formal learning/assessment environment.

Note:

Where simulation is considered a suitable strategy for assessment, conditions must be authentic and as far as possible reproduce and replicate the workplace and be consistent with the approved industry simulation policy.

The resources used for assessment should reflect current industry practices in relation to programming and commissioning commercial security closed circuit television (CCTV) systems.

Method of assessment

9.4)

This unit shall be assessed by methods given in Volume 1, Part 3 'Assessment Guidelines'.

Note:

Competent performance with inherent safe working practices is expected in the industry to which this unit applies. This requires that the specified essential knowledge and associated skills are assessed in a structured environment which is primarily intended for learning/assessment and incorporates all necessary equipment and facilities for learners to develop and demonstrate the essential knowledge and skills described in this unit.

Concurrent assessment and relationship with other units

9.5)

For optimisation of training and assessment effort, competency development in this unit may be arranged concurrently with unit:

UEENEEH Program and test large security systems

153A

UEENEEH Program and commission commercial security systems 154A

UEENEEH Program and commission commercial access control security systems

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Range Statement

RANGE STATEMENT

10) This relates to the unit as a whole providing the range of contexts and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

This unit shall be demonstrated using a representative range of commercial security closed circuit television (CCTV) systems by programming and commissioning at least two different commercial security closed circuit television systems.

Generic terms used throughout this Vocational Standard shall be regarded as part of the Range Statement in which competency is demonstrated. The definition of these and other terms that apply are given in Volume 2, Part 2.1.

Unit Sector(s)

Not applicable.

Competency Field

Competency Field 11)

Electronics

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