



Australian Government

CPPSEC4017 Design security system configurations and specifications

Release: 1

CPPSEC4017 Design security system configurations and specifications

Modification History

Release 1 This version first released with CPP Property Services Training Package Release 9.0.

Supersedes and is equivalent to CPPSEC4017A Determine security system configurations. Updated to meet the Standards for Training Packages

Application

This unit specifies the skills and knowledge required to design security system configurations and specifications. It includes researching system requirements and formulating viable design solutions that meet client requirements within budget and quality constraints. It also includes validating the quality and suitability of the design to meet the intended purpose and preparing detailed and accurate security system schematics and specifications.

This unit is suitable for those using specialised knowledge to complete routine and non-routine tasks and using their own judgement to deal with predictable and sometimes unpredictable problems.

Legislative, regulatory or certification requirements apply in some states and territories to the provision of advice on security solutions, strategies, protocols and procedures. For further information, check with the relevant regulatory authority.

Pre-requisite Unit

Nil.

Unit Sector

Security/Risk management

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Research security system requirements. | 1.1 Access and interpret key requirements of legislation, regulations and workplace policies and procedures and apply to work instructions to ensure compliance. |
| | 1.2 Review work instructions to confirm client and site |

- requirements and work timeframes.
- 1.3 Consult with relevant persons to determine security system performance requirements, budget and quality constraints.
 - 1.4 Review *AS/NZS 2201.1:2007 Intruder alarm systems – Client’s premises – Design, installation, commissioning and maintenance* (AS/NZS 2201) and National Construction Code (NCC) to understand and apply requirements for designing security system configurations and specifications.
 - 1.5 Assess client documentation to identify actual and potential security risks to client operations.
 - 1.6 Conduct research and formulate security system design options to meet client requirements and control identified security risks.
- 2 Validate security system design.
- 2.1 Evaluate design options and select preferred security system configurations to meet site and client requirements.
 - 2.2 Prepare system architectural and service specifications that address performance, maintenance and fault tolerance parameters.
 - 2.3 Check and confirm compatibility of existing and proposed systems and equipment against plans and technical specifications.
 - 2.4 Specify equipment and materials that best meet design specifications and client requirements.
 - 2.5 Finalise security system design and check to ensure schematics and specifications provide sufficient detail to enable accurate costings to be calculated.
- 3 Finalise and report security system configurations and specifications.
- 3.1 Use information technology to clearly and accurately document security system design within required timeframes, budget and quality constraints.
 - 3.2 Seek feedback on recommendations and make required adjustments to obtain client acceptance of proposed

security system design.

- 3.3 Complete and securely store documentation in a manner that facilitates future retrieval and maintains confidentiality.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- reading skills to interpret key requirements of:
 - drawing and drafting symbols
 - plans, drawings and specifications in diagrammatic and schematic formats
 - Australian standards, NCC and manufacturers' instructions
- writing skills to draw accurate plans and schematics when configuring security systems.

Unit Mapping Information

Supersedes and equivalent to CPPSEC4017A Determine security system configurations.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPPSEC4017 Design security system configurations and specifications

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by designing security system configurations and specifications to meet the differing requirements of three clients.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- workplace policies and procedures that ensure compliance with legislative and regulatory requirements when designing security system configurations and specifications:
 - licensing requirements
 - regulatory requirements in the jurisdiction of operation
 - requirements for complying with Australian Communications and Media Authority cabling rules
 - work health and safety
- application of *AS/NZS 2201.1:2007 Intruder alarm systems – Client’s premises – Design, installation, commissioning and maintenance* (AS/NZS 2201) and National Construction Code (NCC) when designing security systems for installation at client premises
- building construction methods and types
- configuration options for a range of security equipment and systems
- design considerations for security system installations at different client sites
- documentation to be completed when designing security system configurations and specifications
- materials, tools and equipment used when designing security system configurations and specifications
- principles of security system design, specifications and configurations
- principles of security system programming and configuring
- techniques for drawing and drafting used when specifying and configuring security system installations
- types and functions of a range of security equipment and systems

- types of budget and quality constraints that can impact design of security systems
- types of security risk factors associated with client sites.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

All individuals engaged by a licensed RTO for security licensing purposes must hold both a security trainers licence (where such a licence exists within the relevant jurisdiction) and the licence for performing the security activities for which the individual is providing training or assessment. Regulators may impose other assessor conditions to meet jurisdictional assessment requirements.

Assessment must be conducted in the workplace or in a simulated workplace environment. Candidates must have access to:

- legislation and licensing requirements that apply to security system design in the jurisdiction of operation
- work instructions and documentation, client information, security equipment and system, tools and materials required to achieve the performance evidence
- AS/NZS 2201
- NCC.

Links

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