



Australian Government

CPPSEC4016 Install networked security systems

Release: 1

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Modification History

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

Supersedes and is equivalent to CPPSEC4016A Install networked security system. Updated to meet the Standards for Training Packages.

Application

This unit specifies the skills and knowledge required to install a range of networked security systems. It includes installing and configuring a range of software, hardware and new components in a network and performing tests to determine operational effectiveness.

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

None.

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.

1 Prepare to install networked security system.

1.1 Access and interpret key requirements of legislation, regulations and workplace policies and procedures, including work health and safety (WHS), and apply to work instructions to ensure compliance.

1.2 Review work instructions to confirm client and site requirements and work timeframes.

- 1.3 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 associated with installing networked security systems.
 - 1.4 Review security system architecture and configuration documentation and source information to clarify installation requirements.
 - 1.5 Confirm location and availability of networked security system components.
- 2 Plan and organise work tasks.
 - 2.1 Plan and prioritise work tasks allowing sufficient time to meet work instructions.
 - 2.2 Select and organise required materials, tools, testing devices and equipment including personal protective equipment and check for safe and correct operation.
 - 2.3 Arrange access to installation site in consultation with relevant persons.
 - 2.4 Identify hazards in the work area and apply risk control measures.
 - 2.5 Use safe work practices when working with electronic equipment and cables according to WHS requirements.
- 3 Perform installation of networked security system.
 - 3.1 Obtain authorisation to install networked security system according to workplace requirements.
 - 3.2 Isolate circuits according to WHS requirements.
 - 3.3 Install cabling and check to ensure compliance with regulatory requirements.
 - 3.4 Install networked security system hardware, software and components according to manufacturers’ instructions.
 - 3.5 Configure system hardware and software according to manufacturers’ instructions and work instructions.
 - 3.6 Conduct procedures to ensure security of system

connections over internet protocol network.

- 3.7 Conduct performance tests to ensure system operation meets prescribed parameters and specifications.

4 Finalise installation and documentation.

- 4.1 Complete and secure installation documentation to maintain client confidentiality.

- 4.2 Notify work completion to relevant persons.

- 4.3 Check tools and equipment for faults, wear or damage and rectify or report problems.

- 4.4 Clean and restore work area and remove waste caused by installation tasks.

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:
 - specifications for networked system architecture and configuration
 - plans and specifications when locating networked security system and components for installation
 - Australian standards, NCC and manufacturers' instructions
- numeracy skills to interpret multimeter readings when testing installed networked security system.

Unit Mapping Information

Supersedes and equivalent to CPPSEC4016A Install networked security system.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSEC4016 Install networked security systems

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing three different networked security systems.

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 installing networked security systems:
 - licensing requirements and limits of own authority
 - requirements for complying with Australian Communications and Media Authority cabling rules
 - regulatory requirements in the jurisdiction of operation
 - 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 installing networked security systems
- basic carpentry techniques used when installing networked security systems
- cable identification and termination methods and techniques
- common computer commands used to verify and manage internet protocol and network performance
- documentation to be completed when installing networked security systems
- fundamentals of routers, switches, firewalls and wireless access points
- fundamentals of scripting language
- keypad and control panel types and functions for a range of security equipment and systems
- local area network and wide area network capabilities
- materials, tools, testing devices and equipment including personal protective equipment (PPE) used when installing networked security systems
- meaning of multiple form factor authentication

- methods for ensuring IP networked systems and equipment are properly secured
- methods for installing software, setting non-software configurations and confirming hardware data is loaded when installing networked security systems
- network testing and monitoring tools and commands used to check network connectivity and continuity
- principles of security system networking and integration including IP addresses and devices
- procedures for isolating existing services
- soldering and drilling techniques used when installing networked security systems
- testing procedures for checking the correct operation of a range of networked security systems:
 - access control systems
 - audible and visual warning devices
 - cameras and monitors
 - commercial and residential alarm systems
 - detection devices
 - electronic and mechanical fire safety and fire locking systems
 - electronic locks and locking systems
 - electronic readers
 - electronic screen equipment
 - intercoms and control panels
 - security doors and door controls
- types and functions of computer software associated with networked security systems
- types of earthing systems used in electrical installations
- types of electrical connections and circuits that may be encountered when installing networked security systems, and circuit protection requirements
- typical hazards encountered when installing networked security systems and the control measures for each:
 - confined spaces
 - electrical
 - hazardous materials and chemicals
 - people in the work area
 - power tools
 - vermin
 - work at heights.

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 networked security system installations in the jurisdiction of operation
- work instructions, documentation, networked security equipment and systems, PPE, tools and materials required to achieve the performance evidence
- AS/NZS 2201
- NCC.

Links

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