Draft 0.1

This is our work-in-progress update to CPPSEC2021A Install security equipment and systems: https://training.gov.au/Training/Details/CPPSEC2021A.

We are working with industry experts to ensure the updated unit:

- meets current and anticipated industry needs
- complies with current Standards for Training Packages
- is written in clear understandable English.

Information on our training package review and development process is available here: http://www.artibus.com.au/project-stage.

Summary of changes from current endorsed unit

Code changed
Elements and performance criteria redeveloped to simplify and better articulate unit structure – new element introduced for planning and organising to capture required skills
Required knowledge updated and rationalised to add specificity and relevance
Installations using Internet Protocol networking introduced

Updates Feb 2019:
Privacy requirements included in knowledge evidence

Updates May 2019:
Minor updates to apply edits and incorporate feedback, eg to Australian Standards and BCA references, licensing statement, assessment conditions info, knowledge, implementation guide links etc

Post EE:
Minor edits
Foundation skills modified to clarify requirements

Unit of Competency CPPSEC2021
Install security equipment and systems

Application

This unit specifies the skills and knowledge required to install a range of security equipment and systems. It includes selecting and using materials, tools and equipment to install security equipment and systems using approved cable termination methods and procedures. This work applies in extra low voltage environments as defined in Australian Standard *AS/NZS 2201.1:2007 Intruder alarm systems – Client's premises – Design, installation, commissioning and maintenance* (AS/NZS 2201) and involves applying National Construction Code (NCC) requirements to the installation.

The unit is suitable for those with basic skills and knowledge undertaking routine work tasks under the direction of more experienced workers.

Licensing, legislative or certification requirements apply to advising on, supplying, installing, maintaining, monitoring, repairing and servicing security equipment in some states and territories. For further information, check with the relevant regulatory authority.

Prerequisite Unit

None.

Elements and Performance Criteria

1. Prepare to install security equipment and systems.	1.1	Review work instructions to confirm installation timeframes, client needs, site location and equipment requirements and clarify issues with relevant persons.
	1.2	Review AS/NZS 2201 and NCC to understand regulatory requirements for locating and installing security equipment and systems and apply to work instructions.
	1.3	Review and follow workplace policies and procedures including work health and safety (WHS) when carrying out work tasks.
	1.4	Identify and obtain security equipment and system to be installed following workplace procedures.
2. Plan and organise installation operation.	2.1	Plan and prioritise work tasks to allow sufficient time to meet work instructions.
	2.2	Select and organise required tools and equipment including personal protective equipment and check for safe and correct operation.
	2.3	Select and organise required materials and hardware for product installation suitable to the specific installation surface and installation procedures.
	2.4	Inspect installation area to identify and control or report risks and hazards.
3. Conduct installation procedures.	3.1	Use safe work practices when working with electronic equipment and cables according to WHS requirements.
	3.2	Select installation position to comply with manufacturers' specifications and work instructions.
	3.3	Securely fix security equipment and system and terminate and connect

		cables, ensuring no damage or distortion is caused to the surrounding environment or services.
	3.4	Identify problems impacting the installation and obtain approval from relevant persons to vary the installation plan.
	3.5	Inspect installed security equipment and system to confirm correct operation.
	3.6	Check to confirm all terminations are electrically and mechanically sound according to WHS requirements.
4. Complete installation and documentation.	4.1	Notify installation completion to relevant persons.
	4.2	Complete installation documentation according to workplace and regulatory requirements.
	4.3	Check tools and equipment for faults, wear or damage and rectify or report problems.
	4.4	Restore work area to original condition and remove waste caused by installation operation.

Foundation skills

Candidates require:

- reading skills to understand key requirements of:
  - plans when locating installation sites for security equipment and systems
  - Australian standards, NCC and manufacturers' instructions
- numeracy skills to calculate measurements to accurately position and fix security equipment and systems.

Unit Mapping Information

Supersedes and equivalent to CPPSEC2021A Install security equipment and systems.

Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b

Assessment Requirements for CPPSEC2021 Install security equipment and systems

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing security equipment and systems at three different premises involving at least two types of systems listed below, one of which must be an internet protocol (IP) networked installation:

- access control system
- intruder alarm system
- audible and visual warning device
- electronic lock and locking system
- intercom and control panel.

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 security equipment and systems:
    - licensing requirements and limits of own authority
    - privacy requirements
    - reporting and documentation
    - 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 the National Construction Code (NCC) to the installation of security equipment and systems
- basic carpentry techniques used when installing security equipment and systems
- cable identification, termination and connection procedures associated with installing security equipment and systems
- documentation to be completed when installing security equipment and systems to ensure compliance with licensing and warranty requirements
- materials, hardware, tools and equipment including personal protective equipment (PPE) used when installing security systems and equipment
- methods for ensuring IP networked systems and equipment are properly secured
- soldering and drilling techniques used when installing security equipment and systems
- techniques for sealing cable entries
- types and functions of security equipment and 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 of earthing systems used in electrical installations
- typical hazards encountered when installing security equipment and systems and the control measures for each:
    - confined spaces
    - electrical
    - hazardous materials and chemicals
    - hidden utilities
    - people in the work area
    - power tools
    - vermin.

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:

- workplace policies and procedures, work instructions, security equipment and systems, PPE, tools, materials and hardware required to achieve the performance evidence
- product information and manufacturers' instructions for equipment and systems being installed
- AS/NZS 2201
- NCC.

Links

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