Draft 0.1

This is our work-in-progress update to CPPSEC2023A Install CCTV equipment and system: https://training.gov.au/Training/Details/CPPSEC2023A.

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 and title change
CCTV terminology updated to VSS (video surveillance systems)
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 CPPSEC2023 Install video surveillance systems and equipment

Application

This unit specifies the skills and knowledge required to install a range of video surveillance systems (VSS) and equipment. VSS is a surveillance system capable of capturing images and videos that can be compressed, stored or sent over communications networks, and includes closed circuit television (CCTV) and audio systems. The unit includes selecting and using materials, tools and equipment to install VSS and equipment 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 VSS and equipment.	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 associated with locating and installing VSS and equipment 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 VSS and equipment to be installed following workplace procedures.
2. Plan and organise installation operation.	2.1	Plan and prioritise work tasks allowing 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 VSS and equipment 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 VSS and equipment 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 VSS and equipment
  - Australian standards, NCC and manufacturers' instructions
- numeracy skills to calculate measurements to accurately position and fix VSS and equipment.

Unit Mapping Information

Supersedes and equivalent to CPPSEC2023A Install CCTV equipment and system.

Links

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

Assessment Requirements for CPPSEC2023 Install video surveillance systems and equipment

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing video surveillance systems (VSS) and equipment at three different premises involving at least one internet protocol (IP) networked installation.

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 VSS and equipment:
    - 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 VSS and equipment
- basic carpentry techniques used when installing VSS and equipment
- cable identification, termination and connection procedures associated with installing VSS and equipment
- documentation to be completed when installing VSS and equipment to ensure compliance with licensing and warranty requirements
- methods for ensuring IP networked systems and equipment are properly secured
- location requirements VSS to ensure optimal surveillance coverage
- materials, hardware, tools and equipment including personal protective equipment (PPE) used when installing VSS and equipment
- methods for fitting end-of-line devices
- soldering and drilling techniques used when installing VSS and equipment
- techniques for sealing cable entries
- types and functions of VSS and equipment and installation requirements associated with:
    - audio systems
    - cameras: pan-tilt-zoom and infra-red sensitive
    - image presentation: display type, real-time surveillance, resolution and number of images
    - recording: image compression, frame rates, resolution, storage capacity, basic metadata, playback and image export
    - system integration

- types of earthing systems used in electrical installations
- typical hazards encountered when installing VSS and equipment 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, documentation, VSS and equipment, PPE, tools, materials and hardware required to achieve the performance evidence
- product information and manufacturers' instructions for VSS systems and equipment to be installed
- AS/NZS 2201
- NCC.

Links

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