



Australian Government

# **CPPSEC3042 Diagnose faults in video surveillance systems and equipment**

Release: 1

# CPPSEC3042 Diagnose faults in video surveillance systems and equipment

## Modification History

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

Supersedes and is equivalent to CPPSEC3042A Identify and diagnose CCTV equipment and system fault. Updated to meet the Standards for Training Packages.

## Application

This unit specifies the skills and knowledge required to diagnose faults in 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 applying methodical diagnostic procedures, testing suspected fault scenarios, and assessing test results, historical information and operational data to diagnose faults and recommend options for rectification. 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).

A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without close supervision.

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.

## Pre-requisite Unit

None.

## Unit Sector

Technical

## 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 Prepare to diagnose | 1.1 Review work instructions to confirm client requirements |
|-----------------------|-------------------------------------------------------------|

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| VSS and equipment faults.                                      |     | and diagnostic timeframes.                                                                                                                    |
|                                                                | 1.2 | Review AS/NZS 2201 to understand regulatory requirements associated with diagnosing VSS and equipment faults and apply to work instructions.  |
|                                                                | 1.3 | Use questioning and active listening to gather information on type of VSS and equipment and extent of fault.                                  |
|                                                                | 1.4 | Review and follow workplace policies and procedures including work health and safety (WHS) when carrying out work tasks.                      |
| 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 and equipment including personal protective equipment and check for safe and correct operation. |
|                                                                | 2.3 | Arrange access to VSS and equipment in consultation with relevant persons.                                                                    |
|                                                                | 2.4 | Identify hazards in the work area and apply risk control measures.                                                                            |
| 3 Conduct VSS and equipment testing and diagnostic procedures. | 3.1 | Use safe work practices when working with electronic equipment and cables according to WHS requirements.                                      |
|                                                                | 3.2 | Isolate VSS and equipment according to WHS requirements.                                                                                      |
|                                                                | 3.3 | Confirm normal performance of VSS and equipment against specification schedules.                                                              |
|                                                                | 3.4 | Inspect and check VSS and equipment components and test operation according to manufacturers' instructions.                                   |
|                                                                | 3.5 | Methodically apply diagnostic methods using measurements and estimations of VSS and equipment operating parameters.                           |
|                                                                | 3.6 | Test suspected fault scenarios to identify source of system problems.                                                                         |

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|                                                                         | 3.7 | Assess test data, site variables, operational and historical information to support fault diagnosis.                                                    |
|                                                                         | 3.8 | Diagnose fault or seek assistance from relevant persons to meet work instructions.                                                                      |
| 4 Recommend options for fault rectification and complete documentation. | 4.1 | Document diagnosed faults and options for fault rectification that are supported by verifiable data according to workplace and regulatory requirements. |
|                                                                         | 4.2 | Check tools and equipment for faults, wear or damage and rectify or report problems.                                                                    |
|                                                                         | 4.3 | Clean and restore work area and remove waste caused by work 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:
  - circuit diagrams
  - plans and specifications when locating system and equipment components
  - Australian standards and manufacturers' instructions.

## Unit Mapping Information

Supersedes and equivalent to CPPSEC3042A Identify and diagnose CCTV equipment and system fault.

## 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>