CPPSEC3039 Diagnose faults in electronic security equipment and 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 CPPSEC3039A Identify and diagnose electronic security 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 electronic security equipment and systems. It 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.
1 Prepare to diagnose electronic security	1.1 Review work instructions to confirm client requirements and diagnostic timeframes.

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

	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:
  - plans and specifications to locate equipment and system components
  - Australian standards and manufacturers' instructions.

Unit Mapping Information

Supersedes and equivalent to CPPSEC3039A Identify and diagnose electronic security 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