



Australian Government

UEEEEC0022 Diagnose and rectify faults in camera circuits and equipment

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UEE Electrotechnology Training Package.

Application

This unit involves the skills and knowledge required to diagnose and rectify faults in camera circuits and equipment.

It includes fault finding and repairing faults in camera circuits and equipment. It also includes working safely, applying logical diagnostic methods of camera circuit components, rectifying faults, safety and functional testing, and completing the necessary service documentation.

Permits may be required for some work environments, such as confined spaces, working aloft, near live electrical apparatus and site rehabilitation.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

UEECD0007 Apply work health and safety regulations, codes and practices in the workplace

UEEEEC0029 Fault find and repair electronic apparatus

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to diagnose and

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Work health and safety (WHS)/occupational health and

rectify camera circuits and equipment faults	safety (OHS) requirements and workplace procedures for a given work area are identified and applied
1.2	WHS/OHS risk control measures and workplace procedures are followed in preparation for camera circuits and equipment work
1.3	Safety hazards that have not previously been identified are risk assessed, documented and risk control measures devised and implemented in consultation with appropriate person/s
1.4	Extent of faults is determined from reports, documentation and discussions with appropriate person/s
1.5	Appropriate person/s is consulted to ensure the camera circuits and equipment work is coordinated effectively with others involved on the worksite
1.6	Tools, equipment and testing devices needed to diagnose faults are obtained in accordance with workplace procedures and checked for correct operation and safety
2 Diagnose and rectify camera circuits and equipment faults	2.1 WHS/OHS risk control measures and workplace procedures for carrying out camera circuits and equipment work are followed
	2.2 Need to test and measure live work is determined in accordance with WHS/OHS requirements and, as required, conducted within workplace safety procedures
	2.3 Circuits/machines/plant are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
	2.4 Logical diagnostic methods are applied to diagnose camera circuit faults using measurements of circuit operating parameters in accordance with camera operating specifications
	2.5 Suspected fault scenarios are tested as being the source of camera circuit problems
	2.6 Faults in the electronic components of the camera circuits are rectified to camera circuits operation and industry standards
	2.7 Circuits are inspected and tested to verify that the

	camera operates to specified requirements
	2.8 Unplanned situations are responded to in accordance with workplace procedures, discussions with appropriate person/s and consistent with job specifications and requirements in a manner that minimises risk to personnel and equipment
	2.9 Diagnosis and rectification activities are carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy practices
3 Complete and report fault diagnosis and rectification activities	3.1 WHS/OHS work completion risk control measures and workplace procedures are followed
	3.2 Worksite is made safe in accordance with workplace safety procedures
	3.3 Rectification of faults is documented in accordance with workplace procedures
	3.4 Appropriate person/s is notified in accordance with workplace procedures that camera circuit faults have been rectified

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the UEE Electrotechnology Training Package Companion Volume Implementation Guide.

Diagnosing and rectifying faults in camera circuits and equipment must include at least the following:

- two circuit faults in two different types of cameras

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH178A Diagnose and rectify faults in camera

circuits and equipment.

Links

Companion Volume implementation guides are found in VETNet - -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b8a8f136-5421-4ce1-92e0-2b50341431b6>