



Australian Government

UEEEEC0009 Commission satellite and microwave communication systems

Release: 1

UEEEEC0009 Commission satellite and microwave communication systems

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 set up and adjust satellite and microwave communication systems.

It includes setting up and adjusting of satellite and microwave communication systems for optimum performance. It also includes working safely, signal testing and analysis, adjusting equipment, following procedures and completing 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

UEEEEC0038 Find and repair microwave amplifier section faults in electronic apparatus

Competency Field

Electronics and Communications

Unit Sector

Electrotechnology

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Prepare to set up satellite and microwave system 1.1

PERFORMANCE CRITERIA

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

Work health and safety (WHS)/occupational health and safety (OHS) requirements and workplace procedures

measuring instruments	for a given work area are identified and applied
1.2	WHS/OHS risk control measures and workplace procedures are followed in preparation for communication system work
1.3	Safety hazards that have not previously been identified are noted on job safety assessments, risk assessed and risk control measures implemented
1.4	Appropriate person/s is consulted to ensure work is coordinated effectively with others involved on the worksite
1.5	Measurement parameters are identified by reviewing transmission/reception requirements and equipment manufacturer instructions
1.6	Tools, equipment and testing devices needed for the communication system work are obtained in accordance with workplace procedures and checked for correct operation and safety
1.7	Preparatory work is checked to ensure no unnecessary damage has occurred and complies with job requirements
1.8	Need to inspect, test and measure live work is determined in accordance with WHS/OHS requirements and conducted within workplace safety procedures
1.9	Circuits are checked and isolated in accordance with WHS/OHS requirements and workplace procedures
2 Set up satellite and microwave communication system measuring instruments	2.1 WHS/OHS risk control measures and workplace procedures for carrying out satellite and microwave communication work are followed
	2.2 Testing/measuring instruments and devices are connected and set up in accordance with requirements for satellite and microwave communication system
	2.3 Measuring instruments are set up and adjusted in accordance with transmission/reception requirements and equipment manufacturer instructions
	2.4 Adjustments are made to provide optimum transmission/reception performance within regulatory

requirements

- | | | | |
|----------|--|-----|---|
| | | 2.5 | Decisions for dealing with unplanned situations are made from discussions with appropriate person/s and job specifications and requirements |
| | | 2.6 | Unplanned situations are responded to in accordance with workplace procedures in a manner that minimises risk to personnel and equipment |
| | | 2.7 | Setting-up satellite and microwave communication system is carried out efficiently without waste of materials or damage to apparatus, the surrounding environment or services using sustainable energy principles |
| 3 | Complete and report set-up activities | 3.1 | WHS/OHS risk control work completion measures and workplace procedures are followed |
| | | 3.2 | Worksite is cleaned and made safe in accordance with workplace procedures |
| | | 3.3 | Adjustment settings are documented and appropriate person/s notified in accordance with workplace procedures |

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.

Commissioning satellite and microwave communication systems must include at least the following:

- two microwave/satellite communication systems

Unit Mapping Information

This unit replaces and is equivalent to UEENEEH186A Commission satellite and microwave communication systems.

Links

Companion Volume implementation guides are found in VETNet - -

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