

	Unit ID: 2273
Domain	BROADCASTING
Title:	Perform setup and operate portable man pack microwave or radio frequency links
Level: 5	Credits: 13

Purpose

This unit standard is intended for those who Perform setup and operate portable man pack microwave/Radio Frequency links. People credited with this unit standard are able to plan man packs RF and microwave links, set-up equipment for links, set-up man pack links, operate man pack link and solve technical man pack link problems.

This unit standard is intended for those who work in the broadcasting working environment.

Special Notes

1. Entry information:

Prerequisites:

- None
2. This unit standard will be essential to technically skilled people who work in the broadcasting environment and need to use sophisticated methods and equipment to install, set-up, operate and fault find professional microwave and satellite broadcasting equipment.
 3. This unit standard is to be delivered and assessed in the context of information and communication technology.
 4. Assessment evidence may be collected from a real or a simulated workplace in which broadcasting operations are carried out.
 5. Performance of all elements in this unit standard must comply with industry standards.
 6. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act 2007(Act No 11, 2007)
 - Regulations relating to the health and Safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007 and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this sub-field may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority on www.namqa.org and the Namibia Training Authority on www.nta.com.na

Elements and Performance Criteria

Element 1: Plan man packs Radio Frequency (RF) and microwave links

Range

Requirements of the links may include but not limited to time, location, equipment, audio and video.

Logistical arrangements may include but not limited to hotel, travel, site/location, appropriate power, and access and safety equipment.

Performance Criteria

- 1.1 Requirements of the links are determined and verified with the clients.
- 1.2 Power, frequency and antennae type are selected for the link budget.
- 1.3 Logistical arrangements are confirmed.

Element 2: Set-up equipment for links

Range

Type of equipment may include but not limited to type of antennae, interface cables, power requirements, type of cables and cable connectors.

Performance Criteria

- 2.1 Site inspection and line-of-sight reports are created.
- 2.2 Type of equipment is selected for the location.
- 2.3 Stand-by equipment are prepared.

Element 3: Set-up man pack links

Performance Criteria

- 3.1 Coverage areas required to receive systems are identified.
- 3.2 Access requirements to the site are acquired and adhered to.
- 3.3 Rigs are set-up safe and secured.

Element 4: Operate man pack link

Performance Criteria

- 4.1 Link interference is determined before transmitters are switched on.
- 4.2 Parameters of the transmitter and receiver are verified as per frequency allocation, polarity and power.
- 4.3 Links optimization is performed for best reception.
- 4.4 Field reports are completed.

Element 5: Solve technical man pack link problems

Performance Criteria

- 5.1 Link problems are identified and evaluated.
- 5.2 Link problems responses are formulated.
- 5.3 Link problems are diagnosed and solved.
- 5.4 Problems that cannot be resolved are reported to relevant persons.

Registration Data

Subfield:	Information and Communication Technology
Date first registered:	30 July 2020
Date this version registered:	30 July 2020
Anticipated review:	2025
Body responsible for review:	Namibia Training Authority