

Unit 57: Operate BOWMAN Equipment

Unit code: M/502/0134
QCF Level 3: BTEC Specialist
Credit value: 9
Guided learning hours: 60

This unit is restricted access and is for Ministry of Defence only.

Aim and purpose

This unit defines the use and operation of BOWMAN communications systems and is specific to the armed forces.

Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

On completion of this unit a learner should:

Learning outcomes	Assessment criteria
1 Operate the Local Area Sub-System (LAS)	1.1 demonstrate how to prepare the simple harness 1.2 demonstrate how to prepare the basic functional LAS and remote connections 1.3 demonstrate how to prepare the full functional LAS and remote connection
2 Construct an antenna for advanced communications	2.1 explain the principles of electromagnetic theory relating to the propagation of radio waves 2.2 calculate (based on what input and for what output) 2.3 select and assemble a suitable antenna for high frequency (HF) communications, taking into account necessary calculations
3 Establish communications using re-broadcast facilities	3.1 operate communication systems to a number of outstations 3.2 operate as a local re-broadcast using any two communication systems to a number of outstations
4 Operate the Key Encryption Key (KEK) fill device	4.1 prepare the Key Encryption Key (KEK) fill device for operation 4.2 operate the Key Encryption Key (KEK) fill device 4.3 perform user maintenance on Key Fill Device (KFD)
5 Operate Common Battlefield Application Toolset (ComBAT)	5.1 describe the ComBAT environment 5.2 describe (standard NATO?) unit symbols 5.3 set up ComBAT appropriately for intended use 5.4 create symbols overlays and CPRs (Consolidated Position Reports) 5.5 accurately create plans, orders and reports 5.6 correctly use and manage messages and data 5.7 accurately use maps within ComBAT

Links to National Occupational Standards, other BTEC units, other BTEC qualifications and other relevant units and qualifications

This unit forms part of the BTEC in IT sector suite. This unit has particular links with:

Level 1	Level 2	Level 3
		Manage BOWMAN Equipment
		Manage BOWMAN Signal Training
		Principles of BOWMAN Digitization
		Supervise BOWMAN Equipment

This unit maps to the Level 3 National Occupational Standards for IT (ProCom).