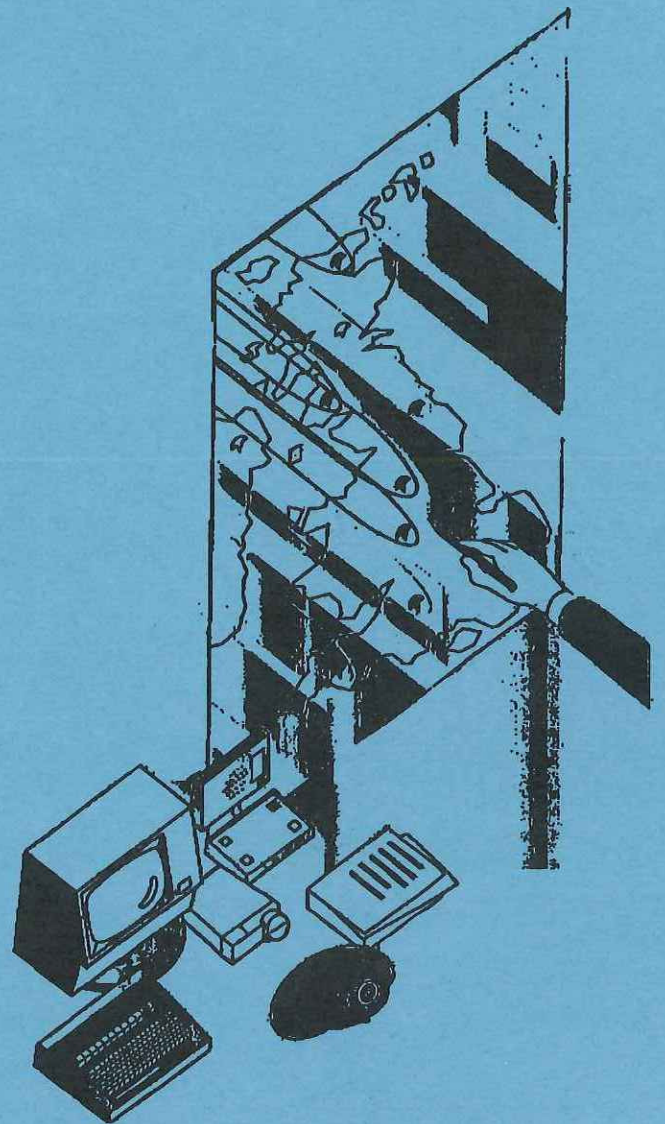


POSTS ELEMENTARY

# TRAINING OBJECTIVES

## POSTS

*Elementary*



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# Royal Observer Corps

1st Issue 1991



# TRAINING OBJECTIVES

## AMENDMENT RECORD

AL	Date of AL	Date Incorporated	By whom Incorporated	Initials
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## TRAINING SYLLABUS - POST OBSERVERS - ELEMENTARY STANDARD

### Enabling Knowledge and Skills

In preparation for testing on an objective, the Observer is to be taught the facts and skills detailed in the references which appear immediately below the objective. The Observer will be expected to display an understanding of facts taught by expressing them in his/her own words. For a better understanding therefore it may be necessary to extend the subject matter beyond the reference given. Skills once taught, are to be practised by the Observer so that he/she becomes fluent and adept in performance.

### Situations

1. The Observer may be tested either in classroom conditions or at the Monitoring Post. Manuals, questions and prompting are not permitted.
2. The Observer is to be tested at the Monitoring Post. Manuals questions and prompting are not permitted.
3. As Situation 1 except that prompting by the examiner is permitted. The figure in brackets indicates the number of prompts permissible, eg Situation 3 (2) - 2 prompts permissible.
4. As Situation 2 except that prompting by the examiner is permitted. The figure in brackets indicates the number of prompts permissible, eg Situation 3 (2) - 2 prompts permissible.
5. As Situation 2 expect that Manuals, SOPs, reference books and aide memoires are permitted.

### Test Types

- A. Oral Test. The Observer must answer correctly in accordance with the references shown under "Enabling Knowledge and Skills" and the conditions laid down in the objective's standard.
- B. Practical Test. The Observer must perform the actions detailed in the objective's standard efficiently and correctly in accordance with the references shown under "Enabling Knowledge and Skills". Any questions set as part of the standard must be answered correctly in accordance with the same references.
- C. These test are concerned with simulated or real "action" situations requiring an application of knowledge and a display of supervision or leadership, Observers must achieve the standard set, under the specified conditions, within any time limit imposed.

### Time Limits

1. Where time limits are stated as a standard, they are a critical requirement of the Test.
2. Where time limits are stated as a condition, they are to guide to the examiner as to the testing time required, and are not critical requirements.

## POST PERSONNEL - ELEMENTARY TRAINING SYLLABUS

<u>No</u>	<u>Objective Title</u>
1	The Status of the ROC and its Personnel
2	UKWMO Functions
3	Ranks and Insignia - At Group Level
4	Nuclear Weapon Effects - Yields and Energy Release
5	Nuclear Weapon Effects - Thermal Effects
6	Nuclear Weapon Effects - Blast and Shock
7	During Nuclear Attack - Open Air Drill
8	Phonetic Alphabet
9	24 Hour Clock
10	The Test Link - (Case 200 or its Alternative)
11	Loudspeaker Telephone (LST) - Description and Use
12	Communications Skills - Voice Procedures
13	Communications, Post to Control
14	Transition to War Procedures (TTW) Procedures
15	Primary Function of a Monitoring Post
16	Familiarisation Visit to a Control
17	Warnings - Air Attack and Fallout Warnings
18	WB1401 Carrier Receiver - Operation
19	Attack Warning Red - Over Carrier Receiver
20	Carrier Receiver - Signals and Messages
21	Individual Dosimeter - Description and Use
22	Charging Unit (Type N105A)
23	Bomb Power Indicator (BPI) - Description and Reading the Instrument
24	Ground Zero Indicator - Description
25	Fixed Survey Meter - Description
26	Radiac Survey Meter - Description
27	Hand Operated Siren - Description
28	Passing of Stores and Ancilliary Items Above and Below Ground
29	Passing Tools and Post Instruments Above and Below Ground - Setting-up the Post

Performance

Conditions

Standard

OBJECTIVE 1 - THE STATUS OF THE CORPS AND ITS PERSONNEL

Describe the status of the ROC and its personnel.

Situation 1, (within 5 mins)

- Test type A. The Observer is to state:  
a. The status of the ROC and under what authority it was established.  
b. Who commands the ROC, his rank, status and his responsibilities to the Ministry of Defence and the Home Office.  
c. The status of ROC members and the name of the publication which contains the regulations to which sparetime personnel are subject.

Enabling Knowledge

- 01 The establishment of the ROC and its status
- 02 Command of the ROC
- 03 Status of sparetime personnel and their regulations

- Trg Manual para 201 & 202
- Trg Manual para 203 & 204
- Trg Manual para 202

OBJECTIVE 2 - UKWMO FUNCTIONS

State the 5 operational functions of the UKWMO

Situation 3 (1)

Test type A. Within 5 minutes.

Enabling Knowledge

- 01 Function of the UKWMO

Trg Manual para 501

Performance

Conditions

Standard

OBJECTIVE 3 - RANKS AND INSIGNIA - AT GROUP LEVEL

Identify ranks and insignia within a ROC Group within 10 minutes. Pass mark 80% correct.

Situation 1. Given a diagram showing only ROC ranks as per Annex A.

Test type A (within 10 mins). The Observer is to list the appointments within an ROC Group appropriate to each rank within 10 minutes.

Enabling Knowledge

01 ROC Ranks and insignia Trg Manual Chap 4 (table)

OBJECTIVE 4 - NUCLEAR WEAPONS - PRINCIPLES, YIELDS AND ENERGY RELEASE

State the yields and energy release of nuclear weapons

Situation 3 (1 per question) (Within 15 mins)

Test type A. The Observer is to state:  
a. The basic principles of atomic (fission) and hydrogen (fusion) weapons.  
b. How the yield of a nuclear weapon is expressed.  
c. The percentage breakdown of energy released at or near ground level.

Enabling Knowledge

01 Fission and Fusion weapons Trg Manual para 603-605  
02 Weapon Powers (yields) Trg Manual para 608-611  
03 Energy distribution in a nuclear detonation Trg Manual para 606-607

<u>Performance</u>	<u>Conditions</u>	<u>Standard</u>
<u>OBJECTIVE 5 - NUCLEAR WEAPON EFFECTS - THERMAL EFFECTS</u>		
Describe the characteristics of the fireball produced as a result of the explosion of a nuclear weapon	Situation 3 (1 per question), (Within 15 mins)	Test type A. The Observer is to: Explain what conditions affect the speed of ascent and the height to which the fireball rises (speed correct to 50kph). State the height to which kt and MT fireballs may normally be expected to rise (correct to 1000m). Define the extent of a main fire zone from a 20kt air burst. Explain the likely effect on people directly exposed to the heat rays of the fireball.

Enabling Knowledge

- 01 The fireball and radioactive cloud
- 02 Size and duration of the fireball and effects of thermal radiation

Trg Manual para 612-613  
Trg Manual para 631-633

OBJECTIVE 6 - NUCLEAR WEAPON EFFECTS - BLAST AND SHOCK

Describe the effects of heat and blast produced as a result of the explosion of a nuclear weapon	Situation 3 (1 per question), (within 5 mins)	Test type A. The Observer is to be able to: a. Explain the likely effects of ground shock on structures and people. b. Explain the two phases of the effect of air blast and their likely effect on structures and people.
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Enabling Knowledge

- 01 Crater formation and ground shock
- 02 Effects of air blast

Trg Manual para 635-636  
Trg Manual para 637-638

Standard

Conditions

Performance

OBJECTIVE 7 - DURING NUCLEAR ATTACK - OPEN AIR DRILL

Test type A. Without hesitation.

Situation 1.

State the actions to be taken to protect oneself in the event of being above ground at the moment of a nuclear detonation

Enabling Knowledge and Skills

01 Crew procedures during nuclear attack SOP Part F Sect 3.3 para 2

OBJECTIVE 8 - PHONETIC ALPHABET

Test type A. Within 1 minute. State the phonetic equivalents of the letters given without hesitation

Situation 1. Given not less than 15 randomly selected different letters

State the phonetic alphabet

Enabling Knowledge and Skills

01 Instructions for writing and speaking information SOP Annex A paras 1-2

01 Instructions for writing and speaking information



Performance

OBJECTIVE 9 - 24 HOUR CLOCK

Demonstrate the use of the 24 hour clock system of writing and reporting time.

Conditions

Situation 1. Given 6 randomly selected 12 hour clock times, 3 which are to be AM and 3 are to be PM

Standard

Test type A and written. Within 2 minutes. The examiner is to say 12 hour clock times and the Observer is to write them down in 24 hour clock notation and read them back in 24 hour clock notation.

Enabling Knowledge and Skills

01 Writing and speaking time SOP Annex A1 para 15

OBJECTIVE 10 - THE TEST LINK (CASE 200 OR ITS ALTERNATIVE)

Describe and demonstrate the use of the Test Link Case 200 or its alternative

Situation 2, (within 2 mins)

Test type B. The Observer is to:  
a. State the function of the Case 200 or its alternative and its location.  
b. Demonstrate the procedure for activating and deactivating the LST/Post circuit.

Enabling Knowledge and Skills

01 Function of the Case 200 SOP Annex B para 9  
02 Operation of Case 200 SOP Annex B paras 10-12

<u>Performance</u>	<u>Conditions</u>	<u>Standard</u>
<u>OBJECTIVE 11 - LOUDSPEAKER TELEPHONE (LST) - DESCRIPTION AND USE</u>		
Describe the Loudspeaker Telephone system	Situation 2, (within 5 mins)	Test type A. The Observer is to: State how to call and speak to the Control and adjust the incoming volume level. a. State the action to be taken at the end of operations. b. State what maintenance is permissible. c.
<u>Enabling Knowledge</u>		
01 Description and features of the LST	SOP1 Annex B paras 1-3 and 7-8	
02 Operation of the LST	SOP1 Annex B paras 4-5	

OBJECTIVE 12 - COMMUNICATIONS SKILLS - VOICE PROCEDURES

Explain the use of voice procedures	Situation 1, (within 5 mins)	Test type A. The Observer is to: a. State the make up of a Post call sign. b. Specify the priority of operational messages. c. State the end of message procedure. d. Describe cluster call sign procedures, and e. State the principles employed in long message procedures.
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Enabling Knowledge

01 Post call sign	SOP1 Annex A para 17
02 Reporting priorities	SOP1 Annex T2 para 1
03 End of message procedure	SOP1 Annex T2 para 13
04 Message passing	SOP1 Annex T2 para 14

Performance

Conditions

Standard

OBJECTIVE 13 - COMMUNICATIONS POST TO CONTROL

Describe the Post to Control communications system  
Situation 1.

Test type A or pictorially. Within 5 minutes. The Observer is to state or show:  
a. The normal method of communication between Posts within a Cluster and a Group Control in a typical Group layout, and  
b. Which posts are (or will be equipped) with radio and under what circumstances Post radio would be used.

Enabling Knowledge

- 01 Landline Communications Trg Manual para 510-511 and fig 502
- 02 Post radio communications Trg Manual para 510-511 and fig 502

OBJECTIVE 14 - TRANSITION TO WAR (TTW) PROCEDURES

Describe the organisation's Transition to War Procedures  
Situation 1.

Test type A. Within 5 minutes the Observer is to state:  
a. His/her part in the Post callout plan.  
b. The various methods of activation.  
c. Location of the Post keys.

Enabling Knowledge

- 01 Transition to War Procedures SOP Part E Section 3 paras 2-4 and Post TTW Plans
- 02 Transition to War Procedures SOP Part E Section 1

Performance

Conditions

Standard

OBJECTIVE 15 - PRIMARY FUNCTION OF A MONITORING POST

State the Primary Functions of a Monitoring Post      Situation 3 (1)      Test type A. Within 2 minutes.

ENABLING KNOWLEDGE

01 Posts - Primary Function      SOP1 Part A paras 1 & 2

OBJECTIVE 16 FAMILIARISATION VISIT TO A CONTROL

Make familiarisation visit their Group Control      By arrangements made by their Group Officer. The aspects shown below are to be covered in the actual locations within the Control.      Not testable.

The following aspects are to be explained during the tour of the Control:

- 01 General layout of the building and the function of the Control
- 02 Function of the Group Information Centre including Post Display Plotters, Triangulation, Post Supervisor, Log Chart Tellers and VDU Operator.
- 03 Function of the Comcen including Traffic Management, Display Tellers and VDU Operators.
- 04 Function of the Operations Room including Warning Keyboard, Logcharts and the principal displays.
- 05 Group Commandant's location and operational responsibilities.
- 06 Logistics and life support.

Performance

Conditions

Standard

OBJECTIVE 17 - AIR ATTACK AND FALLOUT WARNINGS

Describe Air Attack and Fallout Warnings	Situation 3 (1 per question)	Test type A. Within 5 minutes. The Observer is to: a. State the circumstances in which an Air Attack Warning RED will be issued by PWHQ and the audible characteristics of the RED Warning. b. State the circumstances in which Fallout Warnings BLACK will be issued by Warning Officers at Controls and the audible characteristics of the warning. c. State the circumstances in which an Air Attack Message WHITE will be issued by: (1) PWHQ (2) Sector Controllers, and d. State the audible characteristics of the WHITE message.
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Enabling Knowledge

- 01 Air Attack Warning RED Trg Manual para 520 & 525
  - 02 Fallout Warning BLACK Trg Manual para 528 & 530
  - 03 Air Attack message WHITE Trg Manual para 533 & 535
-

Performance

Conditions

Standard

OBJECTIVE 18 - WB1401 CARRIER RECEIVER - OPERATION

Operate the Carrier Receiver

Situation 2, (within 2 mins)  
Given a serviceable WB1401  
complete with Warning District  
label

Test type B, The Observer is to:  
a. Explain the function and construction of the Carrier Receiver and its component parts.  
b. Switch on the Carrier Receiver and identify whether it is serviceable, and  
c. State in which Warning District the Post is located.

Enabling Knowledge and Skills

01 WB1401 Carrier Receiver SOP1 Annex P paras 1-5 and 9-15

OBJECTIVE 19 - ATTACK WARNING RED - OVER CARRIER RECEIVER

Describe the sequence of  
of an Attack Warning RED  
Message received over the  
Carrier Receiver

Situation 3 (1)

Test type A. Within 2 minutes.

Enabling Knowledge

01 WB1400 Carrier Receiver SOP Annex P para 28

Performance

Conditions

Standard

OBJECTIVE 20 - CARRIER RECEIVER - SIGNALS AND MESSAGES

Operate the Carrier Receiver

Situation 2, (within 10 mins)  
Using simulated signals and warnings

Test type B. The Observer is to:

- a. State how and when it is to be tested.
- b. Distinguish between the different signals.
- c. State the messages which may be transmitted and the sequences used.

Enabling Knowledge and Skills

- |    |                                      |                        |
|----|--------------------------------------|------------------------|
| 01 | WB1400 signals                       | SOP Annex P para 16    |
| 02 | Operational messages over the WB1400 | SOP Annex P para 25-38 |
| 03 | Testing procedure                    | SOP Annex P para 10-15 |
| 04 | Peacetime exercise testing           | SOP Annex P para 17-24 |

~~(See Also Memory Aid No 20)~~

OBJECTIVE 21 - INDIVIDUAL DOSIMETER - DESCRIPTION AND USE

Demonstrate the use of the individual dosimeter and its facilities

Situation 1, (within 5 mins)

Test type B. The Observer is to:

- a. Explain the use of the dosimeter.
- b. State function and facilities of the instrument.
- c. Identify the dose shown on the dosimeter scale and state the dose to the examiner correct to 5 centigrays.

Enabling Knowledge and Skills

- 01 Function and facilities SOP1 Annex L7 paras 1-3

~~(See also Memory Aid Nos 21 & 22)~~

Performance

Conditions

Standard

OBJECTIVE 22 - THE CHARGING UNIT (TYPE N105A)

Describe the function and facilities of the Charging Unit

Situation 1. (within 2 mins)

Test type A.

Enabling Knowledge

01 The Charging Unit SOP Annex L8 para 1

OBJECTIVE 23 - BOMB POWER INDICATOR (BPI) - DESCRIPTION AND READING THE INSTRUMENT

Explain the function of the Bomb Power Indicator (BPI) and read its scale

Situation 2. Given a serviceable BPI and 5 marked BPI dial sheets. (within 5 mins)

Test type B. The Observer is to:

- a. Identify the BPI's component parts.
- b. Explain the instrument's use and maintenance.
- c. Interpret 5 given readings

Enabling Knowledge

01 Function of the BPI

02 Construction and maintenance of the BPI

03 The BPI Indicator Unit

SOP Annex L1 para 1

SOP Annex L1 paras 2-8

SOP Annex L1 para 3d fig L1.3



Standard

Conditions

Performance

OBJECTIVE 24 - GROUND ZERO INDICATOR - DESCRIPTION

Explain the function of the Ground Zero Indicator (GZI) and component parts, its operation and maintenance.

Situation 1. (within 5 mins)  
Given a serviceable GZI, cassettes and POP

Test type A.

Enabling Knowledge

01 Ground Zero Indicator SOP Annex L2 paras 1-6

OBJECTIVE 25 - FIXED SURVEY METER - DESCRIPTION

Explain the use of the FSM by describing the function and facilities of the FSM and identifying its component parts.

Situation 1. (within 5 mins)  
Given the indicator unit, batteries, co-axial cable geiger muller tube, U clamp telescopic rod, dome cover and gasket. (within 5 mins)

Test type A.

Enabling Knowledge

01 Fixed Survey Meter SOP Annex L3

Standard

Conditions

Performance

OBJECTIVE 26 - RADIAC SURVEY METER - DESCRIPTION

Explain the function and facilities of the Radiac Survey Meter (RSM)      Situation 1. Given a serviceable RSM and batteries, (within 5 mins)      Test type A.

Enabling Knowledge

- 01 Function and facilities of the RSM      SOP Annex L5 paras 1-5
- 02 Component parts of the RSM      SOP Annex L5 paras 6-10

OBJECTIVE NO 27 - HAND OPERATED SIREN - DESCRIPTION

Explain the function and facilities of the hand operated siren and identify its component parts      Situation 1. (within 5 mins)      Test type B. (no time limit)  
Given the siren issued to the Post or, if no siren has been issued, the photographs in SOP Annex L9.

Enabling Knowledge and Skills

- 01 Function and facilities of the siren      SOP Annex L9 paras 1 & 2
- 02 Component parts of the siren      SOP Annex L9 paras 3 - 5

Standard

Conditions

Performance

OBJECTIVE 28 - PASSING OF STORES AND ANCILLIARY ITEMS ABOVE AND BELOW GROUND

Lift and lower stores as required      Situation 2. By day or night give a rope, net and a variety of stores and equipment.      Test type B. (No time standard). Safely, without injury to self or other personnel.

Enabling Knowledge and Skills

01 Health and Safety - handling/lifting of weights and/or equipment (references to be supplied)

OBJECTIVE 29 - PASSING TOOLS AND POST INSTRUMENTS ABOVE AND BELOW GROUND - SETTING UP THE POST

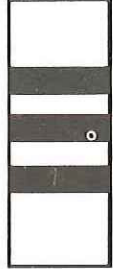





Identify and assemble the tools and prepared operational instruments required by the No 3 Observer above ground when setting up the Post for operations and convey the assembled tools above and below ground as required      Situation 2. By day or night, given standard post tools, rope and a net      Test type B. (No time standard) Safely without injury to self or personnel and without damage or loss of the equipment

Enabling Knowledge and Skills








01 Health and Safety - handling/lifting of weights and/or equipment (references to be supplied)  
02 Instruments required for setting up      SOP1 Part E Sect 3 para 7b(1)-(2)  
03 Bomb Power Indicator      SOP Annex L1 para 6a  
04 Fixed Survey Meter      SOP Annex L3 para 8  
05 Ground Zero Indicator      SOP Annex L2  
06 Siren      SOP Annex L9  
07 PE Set      SOP Annex F1 para 3  
08 Spade      SOP1 Part E Sect 3 para 7  
09 Radio Mast (if applicable)      SOP1 Part E Sect 3 para 6a(2)

Annex A to  
 Elementary Training Syllabus

Objective No3 – Royal Observer Corps Ranks and Insignia at Group Level

ROC Rank (Abbreviation)	Appropriate to Appointment as	Insignia
		
		
		
		
		
		

Objective No3 – Royal Observer Corps Ranks and Insignia at Group Level

ROC Rank (Abbreviation)	Appropriate to Appointment as	Insignia
Observer Commander (Obs Cdr)	Group Commandant	
Observer Lieutenant Commander (Obs Lt Cdr)	Deputy Group Officer	
Observer Lieutenant (Obs Lt)	Group Staff Officer	
Honorary Observer Lieutenant (Obs Lt)	Crew Officer Group Officer NRC Officer	
Observer Officer (Obs Off)	Supervisor (Control) Head Observer (Post) Head Observer (NRC)	
Chief Observer (C/Obs)	Supervisor (Control) Post Instructor Team Instructor (NRC)	
Leading Observer (L/Obs)	Basic rank for Post, Control and NRC personnel	
Observer (Obs)		

