

CADET TRAINING MANUAL

1990 (Vol. 1, 6 admt)

**SUBJECT: MAP & COMPASS**  
**STAR: 2**

**AIM**

To train the cadet to relate the map to the ground and vice versa, to apply such knowledge practically and to introduce the compass.

PERIODS	CONTENTS	REFERENCE
3	Relief and vertical interval.....	Chap 5 Sec 4
1	Introduction to lightweight compass.....	Chap 5 Sec 5
1	Types of bearings .....	Chap 5 Sec 5
1	Measuring magnetic bearings with a lightweight compass .....	Chap 5 Sec 5
1	Setting a map with a compass .....	Chap 5 Sec 6
1	Conversion of a grid to a magnetic bearing and vice versa .....	Chap 5 Sec 6
1	Preparation of a route card .....	Chap 5 Sec 8
6	Navigation exercises by day .....	Chap 5 Sec 5 & 6

**TEST**

APC(ACF)

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(1999 Vol.1)

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**CONDUCT**

The test must take place outside over a pre-selected route. The aim is to assess the cadet's ability to use the map and compass in a practical way.

**Assessment.**

The cadet is to be shown a route marked on an OS 1:50,000 map of not less than 6 km (3 ¾ miles) with 6 changes of direction. They are to complete a route card and use it to navigate the route.

Test No	Detail	Maximum Marks	Pass Marks
The route card will be marked on:			
1	Working Out bearings acceptable error $\pm 2^\circ$	10	5
2	Working out distances acceptable error $\pm 10\%$ of distance	10	5
3	Description of route	10	5
4	Calculation of grid references	10	5
5	Setting map with compass at start	10	5
6	Navigation of route using his route card	10	5
<b>Maximum Marks</b>		<b>80</b>	
Pass Mark			40

**Note:** Care must be taken to check individual compass errors before tests and that the route card prepared is correct in defining the route being taken.