Laxmi Narain Dubey College, Motihari (a constituent unit of B.R.A. Bihar University, Muz.) NAAC Accredited 'B+' National Cadet Corps (NCC)

Topic: Types of Bearing and Use of Service Protractor

NCC – Map Reading B/C Certificate Examination

> <u>Instructor</u> Lt. Durgesh Mani Tewari ANO- 4/25 COY. dmtewari@gmail.com

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22	[MRG: Types of bearing and use of service there
-	an Alaman and Al
-	2 bearing and Its conversion methods
	26. A bearing is always nearned elsekurise.
-	27. The clockwise angle formed by a staight
-	live idening two points and direction or
-	North is called bearing between the two
-	Points.
-	28. Bearing is of three types :-
-	· (a) havid bearing . measured on a the map
-	from the brid North by the held hof a
2	frotractor.
(d	(b) Magnetic bearing. measured from magnetic
1.0	north by the confass.
2	(c) True bearing - Calculated by finding out
-	the relation of the north and brid north
-	or magnetic north
-	-in stable Benerica - and management
	Conversion of bearings.
-	200. from Magnetic Bearing to a True Rearing
rt.	29. Suffice the bearing of a centain paint P is meanined
1	with a contass and is found to be 160 degrees.
20	Now this can be converted as follows: first draw
-	a verticle line to represent magnetic north. next
-	draw a line PO at P an angle of 160 degrees.
-	Next, loan the true routh line approx. 11 degrees
-	East of magnetic nearth. with this diagram it
_	becomes elean that true bearing is smaller by.

GoodLuck Page No. Date 12 degrees. Therefore the true bearing of Q is 149 Legres. (621) 26 from havid Bearing to magnetic Benning TE 62-1 160 149" ing with a frotel meane Protocotor on the mark, the searing of a wind mill at Y from a church at X is fund to be 120 degrees. Now to convert this havid bearing to a magnetic searing draw a diagram as in 62-2 but this time with the brid north line, The bearing is larger than the gril leaving by 11 degrees and is there fore 131 degree Alter abinan Back Bearing 300 It is the bearing taken from the objection lient back on to the original Position 31. The gule is that if the bearing is large · enough to have 180 degrees of subtracted from it this should be done. If it is smaller this figure should be added AL ARCA AND marte matter with this lighter required allowed to be to serve a server as

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r .	Comin 0 1 0
44	Service frotactor
	32. The service Rotractor "A" mark IV is an.
-	instrument used for platting and measuring
matri	bearing on the mar.
× 04	33. It is the essential link between the combass
-	and the mal.
20.00	34. Using source botactor, magnetic bearings
_	have been converted to grid bearing and
2.54	transferred to the mart.
	35. The Rotractor is made of cardboard on
Wa	ivarine.
20	36. It meanines 6 inches long and 2 inches wide
Le.	37. The main hurlose of the hotractor is to measure
	angles and seasings.
- mark	38. The front face of the protractor has 360° of a
	(c) Hinge alle alle spin (c)
Ast,	29. The service potrator is an essential item
	of margreaking. with its held one can :-
	(a) plot and measure bearing on Parley
~	arona mal.
	(b) measure distance in enches (en correct
	weto 2/100 th.
	(c) measure distance in rando, metres or
	miles on a men by univo the appropriate
	scale.
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	of total second and the second and the second secon
-	havides to this paint their fraction having