

**BASIC TRAINING MANUAL: COURSE FOR
COMPASS ADJUSTER & EFFECT OF SHIP MAGNETISM ON COMPASS**

Unit 1	Magnetism and types of metal
Unit 2	Geo magnetism and it's impact
Unit 3	Ship's magnetism –deviation & P,Q,R forces
Unit 4	Coefficients – A,B,C,D,E
Unit 5	Gaussin/Retentive errors and effects
Unit 6	Compass adjustment—various procedures

Instructional Hours:

Part 1: Lecture	: 12 hours
Part 2: Self learning/ Practical/ Assignments	: 06 hours
Total Course hours (weightage of 0.5 to Part 2)	: (12+0.5*06) = 15 hours

Credits: 1

Teaching Methods.

The course will be conducted in a combination of classroom/online discussions/ self-learning/demonstration

Assessment Methods.

Class assessments	: 40%
Final Presentation & Report/ Final Assessments	: 60%

Additional Information on Subject.

Pre-requisites:

1. Intermediate/10 + 2/ Higher Secondary or equivalent with Physics and Mathematics as the main/ancillary subject. For U G Cadets of School of nautical science.

OR

2. Master CoC [STCW as amended] holder.

OR 2nd Mate FG CoC holder.

OR Mate FG CoC holder.

Recommended Texts.

1. 'Ship's Magnetic compass'—Capt. T.K, Joseph and Capt. SSS Rewari

2. <https://www.amsa.gov.au/about/regulations-and-standards/192016-maintenance-and-adjustment-magnetic-compasses>



SOLAS V_Reg19.pdf



A_X_Resolution_382.pdf



maintenance-and-adjustment-of-magnetic-compasses.pdf

