

Directorate General of Shipping, Ministry of Shipping, Govt. of India, Mumbai

Authorized by
the Directorate
General of
Shipping, GOI

Examination, Assessment & Certification
(EAC) Branch

QMS- 7.5

Subject: Conduct of Written Examinations on
electronic mode (tablet based) in place of the
conventional paper based system.

ENGG. Circular No.
133 of 2016

File No:- ENG/EXAM-17(9)/99-III

Dated:-25.11.2016

1. The Directorate has been continually engaged in adaptation and introduction of new tools and technologies into the examination system for granting of various grades of certificate of competency (CoC) which is being issued under the provisions of Merchant Shipping (STCW) Rules, 2014. One such step is to introduce the electronic tablet for writing the examination in place of the conventional system of writing examination on paper.

2. NOTING that the online examination system has been gradually improving and also recognizing that it supports the easy and fast assessment of subjective answers of candidates in a more holistic and uniform manner as compared to earlier use of on line examination for assessment of only multiple choice question / answers. The Directorate thus has been pursuing such a model in the recent past and has supported the Institute of Marine Engineers for the development and introduction of tablet based into the CoC written examination and to carry out its reliability check.

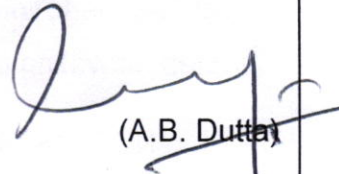
3. RECOGNIZING that the transition from paper based to tablet based will not only bring heightened transparency but also lead to a digital experience, on line evaluation, reduction of reliance on paper records.

4. REALIZING that the introduction of any new technology should be robust enough to meet the objectives and that there is no possibility of tampering of the answers written on the tablet and that the subsequent writing of the comments, marking of the answers on the tablet are also tamper proof, the Directorate has got this tablet based written examination system, developed by Institute of Marine Engineers, vetted independently by an organization of repute i.e. IIT, Bombay.

5. HAVING RECEIVED a very positive report from IIT Bombay and having obtained satisfactory results from number of trial runs of writing examination on tablets, the Directorate has now decided to introduce the paperless digital technology into the written examination system for the conduct of all

grades of Near Coastal Voyage (NCV) Examinations. The candidates shall write the answers on tablets and the evaluation will be done online, excepting papers where specialized drawings or data are not supported on tablets due to current technological limitations as on date.

6. IN VIEW OF THE FOREGOING, the Directorate will henceforth, to start with, all such NCV examinations, as stated in the Annex, which were so far being conducted on paper mode through the IME(I) for Engineering grade examination and LBS CAMSAR for Nautical grade examination, shall be conducted on electronic mode using the tablets. This examination on tablets for engineering grades of NCV examination will be conducted at IMEI house, Nerul, where the infrastructure has been made available. A separate notification will be issued on the proposed scheduled dates and the venue for conduct of Nautical Grade NCV Examination.



(A.B. Dutta)

Engineer & Ship Surveyor-cum-D-DG (Tech)

To,

1. All Maritime Training Institute
2. Principal Officers, MMD, Mumbai/ Chennai / Kolkata / Kochi / Kandla.
3. Shipping Master, Mumbai/ Kolkata/ Chennai
4. INDOS Cell, DGS, Nau Bhavan Building, Mumbai – 400 001
5. Nautical branch, DGS, GoI
6. Engineering Branch, DGS, GoI
7. INSA/ FOSMA/ MASSA/ ICSSA/ MUI/ IMEI
8. Management Representative [QMS], EAC Branch, DGS, GoI
9. Computer Cell, DGS, GoI with a request to upload this on the official website
10. E-Governance Cell, DGS, GoI
11. Guard File
12. Sr. PS to DG(S)- for information.

ANNEX

NCV ENGINEERING GRADE EXAMINATION

| <i>Grade of Examination</i> | <i>Name of the Paper to be answered on Tablet</i> | <i>Name of the Paper to be answered on conventional paper based system</i> |
|-------------------------------------|--|--|
| MEO CI. IV (NCV) | Marine Engineering Knowledge (Motor) Marine Electro-technology Marine Engineering Practice Ship Operations Control and Shipboard Personnel Care | The Marine Engineering Knowledge (General) |
| MEO CI. III (NCV-SEO) Part A | Applied Mathematics Applied Mechanics Applied Heat | The Engineering Drawing |
| MEO CI. III (NCV-SEO) Part B | Marine Engineering Knowledge (General) Marine Engineering Knowledge (Motor) Marine Electro-technology Marine Engineering Practice Ship Safety and Environmental Protections- | The Naval Architecture & Ship Construction |
| MEO CL. III (NCV-CEO) | Engineering Management. | ----- |

Schedule for conduct of Tablet Based Examination for MEO (NCV) Grade.

| Course Name | Schedule |
|------------------------------------|--------------------|
| MEO CI. IV (NCV) | From December 2016 |
| MEO CI.III (NCV-SEO) Part A | From December 2016 |
| MEO CI.III (NCV-SEO) Part B | From January 2016 |
| MEO CI. III (NCV-CEO) | From November 2016 |