

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**



**ORGANISATION HYDROGRAPHIQUE
INTERNATIONALE**

IHB File N° TA-006 – CBSC-1

CIRCULAR LETTER 59/2009

1st September 2009

IHO CAPACITY BUILDING PROJECT
Course in Marine Cartography
Singapore, 22 February - 26 March - 2010

(1st 5 week Module of the recognized UK Category B Programme by the FIG-IHO-ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers)

Reference: CL 27/2009 dated 24 April 2009

Dear Hydrographer,

1 Circular Letter in the reference announced the result of the selection process made with regard to the “Hydrographic Data Processing and Marine Cartography” course funded by the Nippon Foundation. In the same CL it was recognized that there was a considerable demand for training in nautical cartography and that this situation was going to be discussed at the next CBSC meeting.

2 The CBSC allocated time to discuss this situation and agreed that if resources were made available, it would be important to deliver a marine cartographic course, that is to say, the first five week module of the UKHO recognized Cat B programme aiming at developing and promoting human capacity building of technical personnel in developing countries.

3 The course will be delivered in Singapore, between **22 FEB 2010 and 26 MARCH 2010**. A summary of the programme is included as Annex I.

4 Up to 10 trainees will be considered for financing. The support provided by the CB Fund will cover course fees; travel to and from the respective countries, accommodation and a reasonable living allowance.

5 IHO Member States of developing countries are kindly invited to consider nominating **one suitable candidate** who would benefit from this training. The Chairmen of Regional Hydrographic Commissions are invited to share this information with their respective Associated and Observer Members in a developing condition so that they can also consider applying for this training opportunity.

6 Application Form (Annex II) should reach the IHB no later than **01 November 2009** to:
Captain Hugo GORZIGLIA
IHB Director
International Hydrographic Bureau
4, Quai Antoine 1er.
98011 Monaco Cedex
Tel: 377 – 93-108100 Fax: 377 – 93-108140
e-mail: hgorziglia@ihb.mc

The IHB will make the selection. Selected candidates will be informed no later than **10 November 2009**.

7 It is essential that candidates are employed by the hydrographic office, the port authority or related national agency of their country. The nomination must be originated by the employer and should include a statement specifying that the candidate is involved in, or will be involved in the production and maintenance of navigational charts and once the training has been successfully completed, will continue in this field.

8 The authority nominating candidates should make careful selection of the nominee and ensure that opportunities will be in place for the individual to transfer the learning undertaken in a structured manner. This will ensure that the individual and his organization gain full benefit.

9 Nominated candidates should meet the following criteria:
- Very good standard of English, both written and spoken, with reasonable technical English.
- A high standard in mathematics and geography.
- A background in cartography or hydrographic surveying or other relevant experience.

10 Selected candidates will receive detailed logistic information from the host country, Singapore, in due time.

On behalf of the Directing Committee

Yours sincerely,



Captain Hugo GORZIGLIA

Director

Encls: Annex I – Summary of the Programme.

Annex II – Application Form.

Distribution: IHO MSs and RHCs Chairs

IHO CAPACITY BUILDING PROJECT
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Singapore, 22 February - 26 March - 2010

SUMMARY OF THE PROGRAMME

MODULE 1 - MARINE CARTOGRAPHY. A practical introduction to marine cartography and chart construction. This module is recognized as part of the FIG -IHO - ICA Category B Certificate in Nautical Cartography.

The Navigational Chart
The navigational chart - its role and purpose
The navigational chart - History and Development
Type of Chart and Chart user
Chart Projections and Grids
Horizontal Datums
Vertical Datums
Accuracy, Precision and Reliability
Chart Scheming
International and National Organizations
Linear Scales
Latitude and Longitude
Compass Roses; Magnetic Variation.
Bearing and Distance
Navigational Aids
IALA Buoyage System
Lights; Radio Aids
Chart Symbols
Chart text and type styles
Chart Topography
Chart Specifications
Verification procedures
Generalization
Scaling methods
Introduction to surveying
Depths - units; selection; contouring.
Navigational Dangers; Nature of Seabed.
Tidal Theory
Quality Management System.
Chart Compilation; vector capture;
Intellectual Property.
Printing and Finishing;
Network Operating Systems;

STATEMENT OF THE NATIONAL HYDROGRAPHER

The **Hydrographer of** (or appropriate national authority) requests the IHB to consider this Application Form and confirms that is fully aware of the following conditions which apply to this application:

1 The IHO Capacity Building Fund will support course fees, travel to and from the respective countries, hotel accommodation and a reasonable living allowance.

2 Insurances and any other expenses are not covered by the IHO Capacity Building Fund. They are the responsibility of the institution submitting the application.

3 Should a selected candidate not be able to participate in the course for any reason he/she will be replaced by a candidate from the waiting list and **NOT** by an applicant from the same country.

4 Where the IHB is informed, less than 1 month before the start of the course, that a selected candidate is unable to participate in the course, his/her sponsoring institution will be required to refund the IHO Capacity Building Fund any expenses already incurred by the IHB.

Date: _____

Name: _____

Signature: _____