



IHO File No S1/3023 & CBSC-1

**CIRCULAR LETTER 44/2023**  
**18 December 2023**

**CATEGORY "B" HYDROGRAPHIC SURVEY PROGRAMME**  
**SPONSORED BY THE REPUBLIC OF KOREA**  
**(17 June 2024 - 1 November 2024)**

**CALL FOR APPLICATIONS**

References:

- A. IHO CL38/2011 dated 30 June – Memorandum of Understanding (MoU) between the Republic of Korea and IHO on Support of the IHO Capacity Building Programme
- B. IHO Capacity Building Work Programme (2024 CBWP)

Dear Hydrographer,

1. The Republic of Korea (ROK) supports the IHO Capacity Building (CB) Programme by providing funds under the terms of the MoU signed in 2011 (Reference A). In accordance with Reference B, activity P-02, the ROK Category "B" Hydrographic Survey Programme will be held at the Korea Hydrographic and Oceanographic Agency (KHOA), Busan, ROK, from 17 June to 1 November 2024. The ROK has provided funding for up to 10 participants to attend this course. The Hydrographic Survey Programme is recognized at the Category "B" level by the International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) in accordance with IHO Publication S-5B - *Standards of Competence for Category "B" Hydrographic Surveyors*. Further details of the Programme are provided in Annex A.
2. Funding support will cover a return airfare, accommodation, meals and training materials. The funding does not include pocket money for the students or allowances for family members. Medical and life insurance are not covered and should therefore be arranged by the nominating authorities or the selected students.
3. IHO Member States are invited to consider nominating one suitable candidate who will benefit from this Programme and will thereby assist the nominating country in developing its hydrographic capabilities. In accordance with the IHO CB Strategy, this Programme is only available to candidates from IHO Member States.
4. It is essential that candidates are employed by a national hydrographic office, a maritime authority or a related national agency responsible for hydrography in the nominating country. The nomination must include a statement by the nominating authority (Annex B) specifying that the candidate is, or will be, involved in the provision of hydrographic services and that, once the training has been successfully completed, the candidate will continue to work in this field.
5. The authority nominating a candidate should carefully select the nominee and ensure that opportunities will be in place for the candidate to utilize and transfer the knowledge gained through the programme in a structured manner for the benefit of his or her parent organization. This will ensure that the individual and the nominating organization gain maximum benefit.

6. Nominated candidates MUST meet the following criteria
- a. Have a high school diploma plus two years of additional education from a technical college, institute or university. The additional education should be focused on GIS, geography, mathematics and computer science.
  - b. Have a good standard of English, both written and spoken, with a reasonable level of technical English (Candidates' English skills can be assessed if necessary).
7. Applications should be prepared in accordance with CB Procedure 7, which is available on the IHO website at:  
[https://iho.int/uploads/user/InterRegional%20Coordination/CBSC/MISC/Templates%20Procedures/PDF/Proc7\\_E\\_30MAR2020.pdf](https://iho.int/uploads/user/InterRegional%20Coordination/CBSC/MISC/Templates%20Procedures/PDF/Proc7_E_30MAR2020.pdf). In addition to following CB Procedure 7, candidates must also provide the IHO Secretariat with:
- a. copy of the graduation diploma, with evidence of education (if necessary);
  - b. copy of passport valid for at least 1 year
  - c. A curriculum vitae (in English, including a photo) and any related documents;
  - d. A personal letter stating goals and interests (in English), and;
  - e. Statement by the nominating authority, defined in paragraph 4, with a Certificate of Employment
8. Applicants are also strongly advised to complete in advance and submit Certificates of Completion for two e-learning courses, "Fundamentals of Hydrographic Survey" and "MSDI Fundamentals". Courses are available on the IHO e-Learning Center installed in accordance with Decision 42 of the 2nd Session of the IHO Assembly in 2020.
9. Applications should be submitted no later than 19 February (CET) 2024 by e-mail (cl-lc@iho.int with copy to adcc@iho.int, cba@iho.int, pok@iho.int and infokhoa@korea.kr) or Fax (+ 377 93 10 81 40), using the Annex C template, but preferably using the IHO Online Form System by accessing the following link: [https://IHO.formstack.com/forms/cl44\\_23](https://IHO.formstack.com/forms/cl44_23)
10. A Selection Panel, comprising representatives from the IHO Secretariat and the ROK, will select the candidates for the Programme. The successful candidates and their parent organizations will be informed of the selection by 4 March 2024. Successful candidates will be selected individually based on their merits. Once selected, candidates cannot be replaced by their national authorities.
11. The IHO Secretariat would like to reiterate its appreciation to the Republic of Korea for its generous support of the IHO's role and objectives.

On behalf of the Secretary-General  
Yours sincerely,



Luigi SINAPI  
IHO Director

Annexes (in English only):

- A. Summary of the Hydrographic Survey Programme
- B. Statement by the National Hydrographer
- C. Application Form - IHO Online Form System link [https://IHO.formstack.com/forms/cl44\\_23](https://IHO.formstack.com/forms/cl44_23)

**CATEGORY "B" HYDROGRAPHIC SURVEY PROGRAMME**  
**(FIG/IHO/ICA recognized Category B)**  
**KHOA, Busan, ROK, 17 June – 1 November 2024**

**SUMMARY OF THE COURSE PROGRAMME**

- Programme: **Hydrographic Survey Programme**
- Level of Recognition: **Category "B"**
- Duration: **20 weeks**

The programme consists of 15 modules for 16 weeks and a final project lasting 4 weeks  
 (A total of 20 weeks with Theory: 5 weeks; Practical components: 14 weeks; Self-Guided study: 1 week)

**15 Modules (16 weeks)**

- Three introductory modules: Introductory modules deliver overview and demonstration to motivate students and give perspective.

<b>Module</b>	<b>Duration</b>	<b>Description</b>
INTRO1	2 days	Introduction to Hydrography
INTRO2	5 days	Introduction to Data Collection and
COMPUT	10 days	Computation Tools

- Eight modules on theory and guided practice covering the scientific content along with practical work.

<b>Module</b>	<b>Duration</b>	<b>Description</b>
NAUTIC	10 days	Nautical Science
ENVIRO	6 days	Earth and Environmental Sciences
POSIT1	6 days	Horizontal and Vertical Positioning
WATLEV	5 days	Water Levels
REMSEN	3 days	Remote Sensing
BATHY1	3 days	Bathymetry (SBES, SSS)
BATHY2	3 days	Bathymetry (MBES)
LAWSEA	1 day	Law of the Sea, Liability

- Four modules on practical work: To reinforce autonomy and theory.

<b>Module</b>	<b>Duration</b>	<b>Description</b>
POSIT2	5 days	Land Survey Practice
QAQC00	5 days	QA/QC
HYDROP	6 days	Hydrographic Practice
HYDROM	10 days	Hydrographic Data Management

**Final Project (4 weeks)**

- The final project covers planning and preparing for a small survey, data acquisition, processing and deliverables.

Task	Duration	Description
Planning	16 hours	<ul style="list-style-type: none"> <li>Design a survey plan</li> <li>Identify challenges for the survey</li> </ul>
Preparation	36 hours	<ul style="list-style-type: none"> <li>Set-up survey instrument ground support and onboard</li> <li>Perform and report on survey offsets, calibration and health checks</li> </ul>
Acquisition	26 hours	<ul style="list-style-type: none"> <li>Deploy and operate MBES, SBES and SSS</li> <li>Apply QA procedures Report on survey operations</li> </ul>
Processing	46 hours	<ul style="list-style-type: none"> <li>Format and configure collected data</li> <li>Apply reductions Perform data cleaning</li> <li>Assess data quality and analyze the results of the survey</li> </ul>
Deliverables	12 hours	<ul style="list-style-type: none"> <li>Compile survey data for delivery</li> <li>Create survey products</li> </ul>
Reports	24 hours	<ul style="list-style-type: none"> <li>Report of survey</li> <li>Oral presentation of survey conduct and results</li> </ul>

The table below shows how the modules fit in the overall scheme.

Week	1			2			3			4					
Module	INTRO1			INTRO2			COMPUT			NAUTIC					
Practice				Demo and hand on MBES deployment			Computer programming								
Assess.				Participation			Practical exercises			Questionnaire & Practical exercises					
Week	5			6			7			8					
Module	NAUTIC			ENVIRO			POSIT1			POSIT2					
Practice	Plan Route	H&S		Boatmanship	Meteo	Oceano.	Marine geology		Comp. tools	GNSS soft.		Land survey practice			
Assess.	Questionnaire & Practical exercises			Written Exam	Practice exercises			Practice exercises			Written Exam	Practice exercises			
Week	9			10			11			12					
Module	POSIT2			WATLEV			REMSEN			BATHY1			BATHY2	QAQC00	
Practice	Land survey practice				Comp. tools		TG Deploy		LIDAR Proc.	GIS Tools.		SBES proc.	SSS deploy	MBES proc	Error TPU calc.
Assess.	Practice exercises			Practice exercises			Written Exam	Practice exercises Exam			Practice exercises	Written Exam	Practice exercise	Written Exam	Practice exercises
Week	13			14			15			16					
Module	LAWSEA			HYDROP			HYDROM								
Practice	Case studies	QC MBES		Survey planning, deployment, acquisition, processing			Data acquisition and Control				Data Processing and Analysis	Data Managt, Product creation			
Assess.		Written Exam	Written Exam	Practice Exercises			Practice exercises			Practice exercises					
Week	17			18			19			20					
Module	Comprehensive Final Field Project														
Practice	Planning	Preparation			Acquisition			Processing			Deliverables	Reports			
Assess.	Participation and Report	Participation and mobilization report			Participation, logs and reports			Quality of processed data			Quality of products	Report of survey and presentation			

**STATEMENT BY THE NATIONAL HYDROGRAPHER  
Or  
APPROPRIATE NATIONAL AUTHORITY**

The **Hydrographer** (Type here if not the Hydrographer) of (type here the name of the country) requests the IHO to consider this Application Form and confirms that he/she is fully aware of the following conditions which apply to this application:

1. The candidate (if selected) once the training has been successfully completed, he/she will continue to work in the field of the training received.
2. The IHO Capacity Building Fund will support the items so agreed and indicated in the relevant Circular Letter or Invitation Letter.
3. Insurances, visa and any other expenses are not covered by the IHO Capacity Building Fund. They are the responsibility of the institution submitting the application.
4. 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.
5. Passport and Visa are the responsibility of the applicant or the applicant's administration.
6. Where the IHO Secretariat 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 IHO.

Date: Signature date	Name: National Hydrographer/authority name
Signature:	



<p>CB Procedure 7</p> <p>APPLICATION FORM</p>
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**IHO CAPACITY BUILDING PROJECT  
CANDIDATE APPLICATION FORM**

(IHO Online Form System: [https://IHO.formstack.com/forms/cl44\\_23](https://IHO.formstack.com/forms/cl44_23))

<b>1. Project characteristics</b> (filled by the IHO Secretariat or project leader) <b>2022 CBWP (Activity P-02)</b>	
Type of project:	Course
Name of the project:	Category "B" Hydrographic Survey Programme
Venue:	Republic of Korea - Busan - KHOA
Period:	From 17/06/2024 to 01/11/2024
<b>2. Personal information</b> (filled by applicant)	
Title:	Choose your title
Family name:	Enter your family name
First name:	Enter your first name
Nationality:	Enter your nationality
Date of birth:	Enter your date of birth
Place of birth:	Enter your place of birth
<b>3. Address direction</b> (filled by applicant)	
Address:	Enter the street number
	Enter the complement
	City – Enter the postal code
	Country
Telephone:	(Country code) phone number
Fax:	(Country code) fax number
e-mail	Enter an e-mail address
<b>4. Present position and description of duties</b> (filled by applicant)	
Describe here your current position in the organization and a short description of your duties (maximum 5 lines)	
<b>5. Experience in Hydrography and Cartography</b> (filled by applicant)	
Describe here your past experience in Hydrography and Cartography, with emphasis in the ones related to the project (maximum 7 lines)	
<b>6. Candidate's future plans for application of the training/participation</b> (filled by applicant)	
Describe here your future plans for application of the training or participation in technical events (maximum 5 lines)	
<b>7. Date and signature of the applicant</b>	

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