

Building Hydrographic Capacity On-Line and On-Site S-5B and S-8B



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Overview

- Motivation
- Global S-5B/S-8B Design considerations
- IIC Academy / Deakin University
- Participants
- Practicals & Final Field Project
- Future





Motivation

Institutional

- Demand for personnel has exceeded supply
- Loss of trained personnel to other markets
- Increased contracting out by HOs to Industry
- Employee retention / career path / marketability
- Hydrographic Certification

Individual

- Cost of training travel, accommodations.
- Pressure of life / work / education balance
- Career growth, Hydrographic Certification, CPD
- Connected globally





Hydrographic Certification (Level 0, 1 and 2)

7.1 It is recommended that an ACLS Certified Hydrographer (CH or CHTech) or equivalent Certification recognized by the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC), be employed as part of the onsite team, for the duration of a project. These certifications will constitute part of the technical rating criteria of this RFSA.

Canadian Hydrographic Service

UKHO Hydrographic Survey Specifications

Charge Surveyor

"The Charge Surveyor must be accredited to HPAS Level 1 or 0 (or equivalent) and/or degree level hydrographic surveying qualification from an IBSC Category A recognised course

Australian HydroScheme Industry Partner Program - Statement of Requirement:

3.2 Surveyor in Charge (SIC)

The Contractor shall identify the SIC in their Survey Management Plan (SMP). The SIC is to be an AHSCP certified Level 1 Surveyor (CPHS1) and in date for Continual Professional Development (CPD) as per the list of certified Surveyors on the SSSI website. The SIC will be responsible for:





IBSC Recognized Programs

- 3-year time frame for completion
- Global Delivery (anywhere, anytime)
- Partnering with local institutions

Nº 193

FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)







Certificate of Recognition

IIC Technologies Academy (India)

The FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers, having reviewed the Programme "Hydrographic Surveying Programme (Global Delivery)" against the Standards of Competence for Category "B" Hydrographic Surveyors, S-5B, Edition 1.0.1, and being satisfied that it meets the requirements prescribed for a Category "B" programme hereby awards this certificate of recognition for a period of six (6) years.

S-5B

Signed at Monaco

Ron Furness Chair of the Board This day the 5 April 2019 FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)







Nº 210

Certificate of Recognition

IIC Technologies Academy (India)

The FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers, having reviewed the Programme "Marine Geospatial Information (Portable Delivery)" against the Standards of Competence for Category "B" Nautical Cartographers, S-8B, Edition 1.0.0, and being satisfied that it meets the requirements prescribed for a Category "B" programme hereby awards this certificate of recognition for a period of six (6) years.

Signed at Monaco

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Ron Furness Chair of the Board This day the 29 October 2020

)IIC ACADEMY



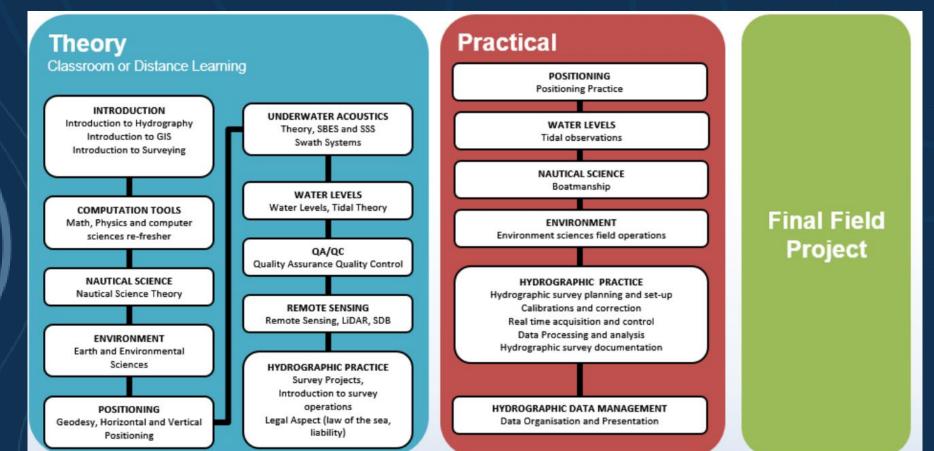
IIC Academy Cat S-5B Course Design and Delivery

On-line
(13 weeks content /
30 weeks to complete)

On-Site (Globally)

5 weeks

4 weeks







IIC Academy Cat S-8B Course Design and Delivery

On-line

(22 weeks content / 30++ weeks to complete)

Foundations of Marine Geospatial Information (10 Days)

- Introduction to Nautical Cartography
- Charting International framework and organizations
- Basic concepts of Cartography

Data Assessment, Compilation and Production (32 Days)

- Essential aspects of Nautical Chart production
- S-57 Object Catalogue
- Data Sources and Production Tools

Production and Validation (32 Days)

- Evaluation and Categorization of Bathymetric Surveys, CATZOC
- Workflow and Process Design
- ENC Production, Quality Management and S-65
- Chart Proofing and Printing, Raster Chart Production

Marine Environment: Physical Characteristics and Legal Issues (6 Days)

- Elements of Geology, Geophysics, Oceanography
- and Maritime Law
- Marine Environment and Cartography

Marine Spatial Data Infrastructure (5 Days)

- Concepts, Evolution
- Practical Deployments
- Role of MSDI in National and Regional Development

Remote Sensing (5 Days)

- Concepts, Sensors
- Data Formats and Preparations
- Remote Sensing in Cartography



Web-based Learning Components



Webinars

Instructor led



Presentations
Contents
Videos

Self-paced reading Instructor monitors progress time



Quizzes Short Tests

Self-paced Instructor monitors re-takes

Instructor validates results



Assignments Exercises

Interaction with instructor

Instructor corrects and guides



Forum

Instructor moderated

Instructor assesses student participation



Tutoring (if required)

Instructor led
Individual students
or small groups





Category S-5B Program (2023-24)



Partnership



2nd Blended

- Commenced September 2022
- Practical & Final Field Project May 2023 / Australia
- 11 students graduated

3rd Blended

- Commenced September 2023
- Practical & Final Field Project May 2024 / Australia and Canada
- 19 students enrolled



S-5B Practicals and Final Field Project







Category S-8B Program (2023-24)

2nd Blended

- Commenced September 2022
- Practical & Comprehensive Cartographic Project Jun 2023 / Australia
- 6 students graduated

3rd Blended

- Commenced September 2023
- Practical & Comprehensive Cartographic Project Jun 2023 / Australia, Philippines and USA
- / 20 students enrolled

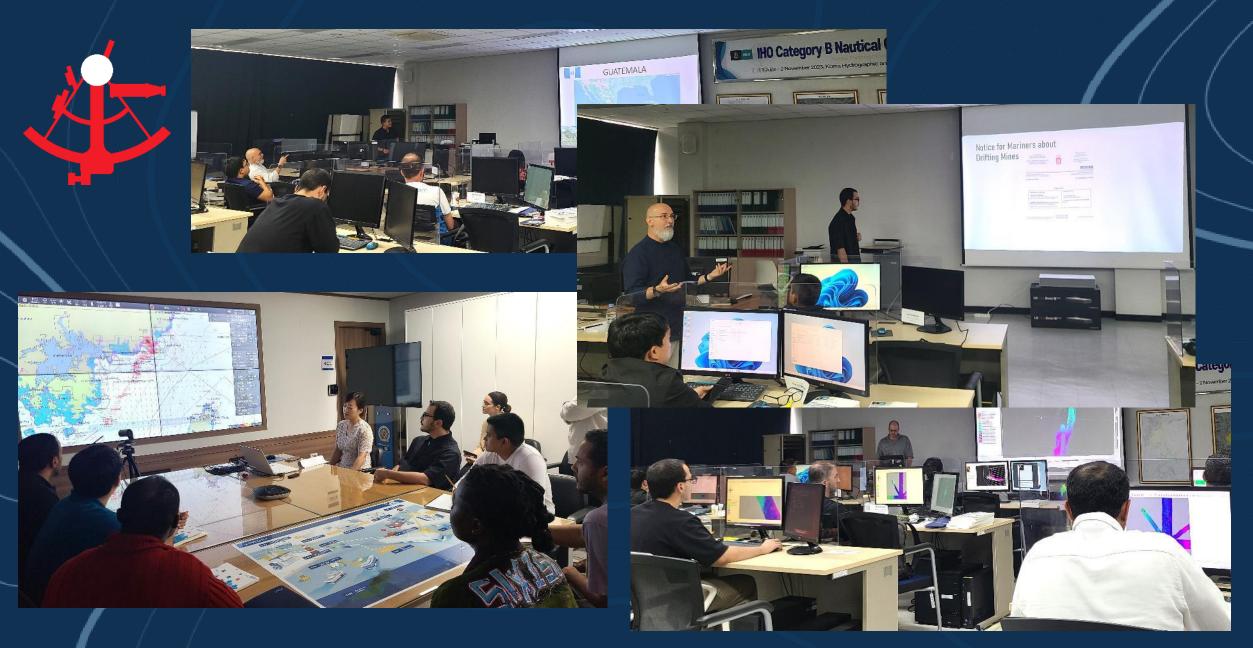




Category S-8B Program - KHOA 2023

- 22 weeks on site
- IBSC recognized program
- 9 students representing Greece, Australia, Ghana, Guatemala, Georgia, Phillippines, Nigeria, Oman and Saudi Arabia.











Thank You

www.iicacademy.com

For more information on the S-5B course or to register:

Email:

hydrographicsurveyor@iicacademy.com

For more information on the S-8B course or to register:

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