

INTERNATIONAL HYDROGRAPHIC ORGANIZATION



TRAINING COURSES IN HYDROGRAPHY AND NAUTICAL CARTOGRAPHY

IHO Special Publication C-47
7th edition updated April 2011

Published by the International Hydrographic Bureau
MONACO

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4 quai Antoine 1^{er}
B.P. 445 - MC 98011 MONACO Cedex
Principauté de Monaco
Telefax: (377) 93.10.81.40
E-mail: info@ihb.mc
Web: www.iho.int

Please note that the educational institutions identified with an asterisk haven not provided updated information on their courses for the 2008 edition. The courses requests for current information should be made directly to be addresses indicated

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ARGENTINA

A R G E N T I N A

Name and address of Education Institution

Servicio de Hidrografia Naval Av. Montes de Oca 2124 1271 BUENOS AIRES Argentina	Teleph: + 5411 43 01 00 61/68 Fax: + 5411 43 01 38 83 E-mail: shn@hidro.gob.ar
---	--

Courses

1. Training Course for Hydrographic officers
 (Recognized by the FIG/IHO Advisory Board at Category B.)

Duration

1 year

Language used

Spanish

Entry requirements

Naval officer, Lieut. Junior grade or Lieut. or equivalent

Fees

Subject to agreement between Navies

Open to foreign students?

Subject to annual availability of courses

Applications should be addressed to:

Address above.

2. Training Course for Petty officers

Duration

9 months

Language used

Spanish

Entry requirements

To be principal head or equivalent, specialized in hydrography

Fees

Subject to agreement between Navies

Open to foreign students?

Open to petty officers of foreign Navies, following proposal from the respective Navy

Applications should be addressed to:
Address above.

<<<<>>>>

Name and address of Education Institution

Instituto de Geodesia (FIUBA) Av. Las Heras 2214 1127 BUENOS AIRES	Teleph/Fax : + 5411 45 14 30 14 / 30 15 E-mail : GEODUBA@fi.uba.ar
--	--

Courses

1. Hydrographic Engineer

Duration

2 years (postgraduate)

Language used

Spanish

Entry requirements

Surveyor's diploma or civil engineer diploma

Open to foreign students?

Subject to annual availability of Courses

Applications should be addressed to:

Address above.

<<<<>>>>

Name and address of Education Institution

Escuela de Ciencias del Mar Av. Montes de Oca 2124 1271 BUENOS AIRES Argentina	Teleph : + 5411 43 01 98 09 Fax : + 5411 43 03 22 99 E-mail : escm@hidro.gov.ar
---	--

Courses**1. Bachelor in Cartography**Duration

4 years

Language used

Spanish

Entry requirements2nd level education diploma or equivalentOpen to foreign students?

Subject to annual availability of courses

Applications should be addressed to:

Address above

<<<<>>>>

AUSTRALIA

AUSTRALIA

Name and address of Education Institution

RAN Hydrographic School HMAS Penguin Middle Head Road, BALMORAL NSW 2088, Australia	Teleph: +61 2 9647 5460 +61 2 9647 5461 Fax : +61 2 9647 5469
---	---

Courses

1. H2 Hydrographic Officers Course (Recognized by the FIG/IHO/ICA at Category B)
--

Duration

26 weeks

Language used

English

Entry requirements

1. Higher School Certificate or its equivalent, with passes in English and Mathematics.
2. RAN Officers must also hold a Bridge Watchkeeping Certificate (BWC).
3. RAN Sailors are required to have a minimum of three years seniority as a Leading Seaman Hydrographic Systems Operator (LSHSO), a minimum of 12 months sea experience in the rank of LSHSO, and must have completed the Intermediate Surveying Continuation Training Guide, Advanced Seamanship and Senior Sailors Management courses.
4. International and civilian students must possess an equivalent certification that satisfies the same levels of navigation, seamanship and academic competence as the award of a BWC. Since this course is conducted in English, to ensure International students are not disadvantaged by language difficulties, students are required to have attained a language proficiency rating of 7+ in reading, writing, speaking and listening as defined by the Australian Defence Force English Language Profiling System (ADFELPS).

Fees

Upon application to Australian Department for Foreign Affairs

Open to foreign students?

Yes (see Note below)

Applications should be addressed to:

Department of Defence
 International Policy
 Division Russell Offices
 CANBERRA A.C.T. 2600
 Australia

Phone: 61. 2. 6265 1483

Fax: 61. 2. 6265 2036

Website: <http://www.navy.gov.au/foreigntraining/>

Note: Applications to be made through Australian Defence Cooperation Programme (DCP).
Private applications are not accepted.

<<<<>>>>

2. Intermediate Hydrographic Surveying Course

Duration

11 Weeks

Language used

English

Entry requirements

RAN personnel attending this course will be of the rank of Able Seaman. They are to have completed the Basic Hydrographic Surveying Course (BHS), the BHS Competency Log and have at least 1 years experience in a sea going Hydrographic Vessel.

Fees

Not Applicable

Open to foreign students?

No

Applications should be addressed to:

Not applicable

<<<<>>>>

3. Basic Hydrographic Surveying Course

Duration

11 Weeks

Language used

English

Entry requirements

RAN personnel undertaking this course are Seaman who have completed recruit training.

Open to foreign students?

No

Applications should be addressed to:

Not applicable

<<<<>>>>

BRAZIL

BRAZIL

Name and address of Education Institution

Diretoria de Hidrografia e Navegação Rua Barão de Jaceguay, S/N Ponta da Armação, NITEROI-RIO DE JANEIRO CEP 24048-900 Brazil	Teleph: +55 (021) 218 93 015 Fax: +55 (021) 218 93 514 E-mail: int.rel@dhn.mar.mil.br
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Courses

1. Advanced Training Course in Hydrography for Officers (Recognized by the FIG/IHO Advisory Board at Category A)
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Duration

50 weeks

Language used

Portuguese

Entry requirements

To be a navy officer or to have a bachelor's degree. To be graduated in Naval Science or Engineering, Physics, Mathematics, Statistics, Geology and Geophysics, Oceanography, Meteorology or Computer Science.

Fees

On a reciprocal basis

Open to foreign students?

Yes. Mandatory proficiency in spoken and written Portuguese

Applications should be addressed to:

Diretoria de Hidrografia e Navegação, through military attachés accredited by the Brazilian Government.

Other remarks

Full meals provided.

<<<<>>>>

**2. Advanced Training Course in Hydrography and Navigation for enlisted personnel
AP-HN**

Duration

35 weeks

Language used

Portuguese

Entry requirements

Must be a petty officer or equivalent with a minimum period of 2 years on board experience and High school certificate, with Specialization in Hydrography and Navigation.

Fees

On a reciprocal basis

Open to foreign students?

Yes. Mandatory proficiency in spoken and written Portuguese

Applications should be addressed to:

Diretoria de Hidrografia e Navegação, through military attachés accredited by the Brazilian Government.

Other remarks

Full meals provided.

<<<<>>>>

**3. Specialization Course in Hydrography and Navigation for enlisted personnel
ESP-HN**

Duration

42 weeks

Language used

Portuguese

Entry requirements

Seaman rank or equivalent with at minimum 2 years on board experience and complete first year of High school or equivalent.

Fees

On a reciprocal basis

Open to foreign students?

Yes. Mandatory proficiency in spoken and written Portuguese

Applications should be addressed to:

Diretoria de Hidrografia e Navegação, through military attachés accredited by the Brazilian Government.

Other remarks

Full meals provided.

<<<<>>>>

CHILE

CHILE

Name and address of Education Institution

Servicio Hidrográfico y Oceanográfico de la Armada Errazuriz 254 Playa Ancha Casilla 324 VALPARAISO Chile	Teleph : + 56 32 266666 Fax: + 56-32-266542 E-mail : SHOA@SHOA.CL Internet : http://www.SHOA.CL
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Courses

1. Course in Hydrography and Oceanography for Navy Officers (Recognized by the FIG/IHO Advisory Board at Category A)
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Duration

2 years

Language used

Spanish

Entry requirements

1. 1. To be a Navy Officer
2. To have carried out post-graduate studies for at least 2 years, in areas of engineering or equivalent.
3. To have proficiency in Spanish.

Open to foreign students?

Yes (depending on availability)

Applications should be addressed to:

Estado Mayor General de la Armada de Chile (through the Naval Attaché of Chile in the country concerned or through the respective Naval or Military Attachés in Chile). When Naval or Military Attaché is not available, applications can be directly sent to the Liaison Officer of the Chilean Navy: ofenlace@armada.cl

<<<<>>>>

CHINA

CHINA**Name and address of Education Institution**

Dalian Naval Academy (500) N° 1 Xiaslong Street Zhongshan District DALIAN People's Republic of China	
--	--

Courses

1. Hydrographic Surveyor Teaching Syllabus

Duration

4 years/ 2 years/ 1 year

Language used

Chinese

Entry requirements

- a) Any qualified Higher School graduate
- b) Any Bachelor of Engineering Degree holder or Associate Degree holder.
- c) Any prospective trainee with a minimum 2 year experience in hydrographic surveying.

Open to foreign students?

Yes, fulfilling entry requirements.

Applications should be addressed to:

The Director
(Address above)

<<<>>>

CHINA (HONG-KONG)

Name and address of Education Institution

The Hong Kong Polytechnic University	Department of Land Surveying and Geo- Informatics Hung Hom, Kowloon HONG KONG SAR China Teleph: + 852 27 66 59 61 Fax: + 852 23 30 29 94 E-mail: LSNICK@POLYU.EDU.HK
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Courses

1. LSGI Hydrographic Postgraduated Diploma
(Recognized by the FIG/IHO Advisory Board at Category A)

Duration

1 year

Language used

English

Entry requirements

Open to foreign students?

Subject to annual availability of courses

Applications should be addressed to:

Address above.

<<<<>>>>

COLOMBIA

COLOMBIA

Name and address of Education Institution

Escuela Naval "Almirante Padilla" Dirección Bosque Isla de Manzanillo CARTAGENA DE INDIAS Colombia	Teleph : +57 5 6694323/122 Fax: +57 5 6694124 E-mail: hidrografia@enap.edu.co Web Site: www.escuelanaval.edu.co
---	--

Courses

<p>Course of Hydrography Class, A Option 1 and 2 (Recognized by the FIG/IHO International Advisory Board at Category B)</p>
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Duration

1 year

Language used

Spanish

Entry requirements

Navy Officers and petty Officers, Oceanographers, Naval Engineers, Naval Science or other careers with adequate background in Sciences.

Open to foreign students?

Yes.

Applications should be addressed to:

Escuela Naval de Cadetes "Almirante Padilla"
Decanatura de Oceanografía Física
Especialización en Hidrografía
Bosque Isla de Manzanillo
CATAGENA
Colombia
E-mail: hidrografia@enap.edu.co

Other remarks

This programme has been certified by the Ministry of education at post-graduated level (Specialization).

<<<<>>>>

CUBA

CUBA

Name and address of Education Institution

Academia Naval "Granma" Academia de la FAR "Máximo Gómez", Micro X, Alamar, Habana del Este, LA HABANA Cuba	Oficina Nacional de Hidrografía y Geodesia Av. 47 No. 2829 e/ 28 y 34 Rpto Kohly, Playa, CP 11300 LA HABANA Cuba Teleph : +53 (7) 209 0926, 209 0927 Fax: +53 (7) 203 0967 E-mail: onhg@enet.cu
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Courses

Course of Hydrographic and Geodesic Engineers
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Duration

5 years

Language used

Spanish

Entry requirements

Bachelor's degree

Open to foreign students?

Not for the moment.

Applications should be addressed to:

Jefe

Oficina Nacional de Hidrografía y Geodesia

Ministerio de las Fuerzas Armadas Revolucionarias

Avda 47 N° 2829 e/ 28 y 34

Rpto Kohly, Playa, CP 11300

LA HABANA

Cuba

Teleph : +53 (7) 209 0926, 209 0927

Fax: +53 (7) 203 0967

E-mail: onhg@enet.cu

ECUADOR

ECUADOR

Name and address of Education Institution

Instituto Oceanografico de la Armada (INOCAR) Av. 25 de Julio Via. Puerto Marítimo GUAYAQUIL Ecuador	Teleph: + 593 2 481300 Fax: + 593 2 480537, 485166 E-mail: inocar@inocar.mil.ec
--	---

Courses

Course in Hydrography

Duration

48 weeks

Language used

Spanish

Entry requirement

To be a naval officer, rank "Teniente de Fragata" (Lieutenant, junior grade)

Open to foreign students?

YES

Applications should be addressed to:

Director

Instituto Oceanografico de la Armada (INOCAR)

(See address above).

<<<<>>>>

ESTONIA

ESTONIA

Name and address of Education Institution

Estonian Maritime Academy Mustakivi tee 25, 13912 TALLIUS Estonia	Teleph: Fax: + 372 604 2099 E-mail: eesti.mereakadeemia@emara.ee Web site : www.emara.ee
--	---

Courses

Course in Hydrography

Duration

4 years of bachelor studies + one year of master's studies

Language used

Estonian

Entry requirement

Entry based on state exams

Fees

State-paid place free of charge,
 Other – fee 1500-1900 euro per year

Open to foreign students?

YES, but the language used is estonian

Applications should be addressed to:

Estonian Maritime Academy
 (See address above).

<<<<>>>>

FRANCE

FRANCE

Name and address of Education Institution

Ecole du SHOM 13, rue du Chatellier CS 92803 29228 BREST CEDEX 2 France	Teleph: +33 2 98 22 11 62 Fax: +33 2 98 22 04 96 E-mail: drh-for-d@shom.fr
---	---

Courses

<p>High Level Diploma in Hydrography (Recognized by the FIG/IHO International Advisory Board at Category B)</p>

Duration

19 months (from January to July of the following year)

This course is intended to provide specialized training in the collection and processing of hydrographic data to students from the French Navy. The first part of the course (from January to April) is devoted to seamanship. The second part (from April to April of the following year) is devoted to specific hydrography course, including oceanography and geosciences. The third part (from April to July) is devoted to practical training at sea in SHOM survey groups.

This cycle results in the preparation of field staff, mariners and polyvalent technicians.

The course also confers the title of "hydrographer", registered in the RNCP¹ and accredited at level III code NSF 117b, by decree of 2 October 2006 published in the Official Journal of the French Republic on 24 October 2006.

Language used

French

Entry requirements

French Navy candidates (petty officers only) are recruited by an internal procedure defined by the French Navy.

External candidates are admitted after consideration of their academic background. This must be at the level of a scientific Baccalaureate. Basic seamanship and a good knowledge of French are also necessary. Civilian technicians only have access to the second and third part of the training.

Fees

On case-by-case basis. Please contact drh-for-d@shom.fr

Open to foreign students?

Yes

Availability of scholarships

Yes, through the appropriate diplomatic channels

Applications should be addressed to:

French Embassy in the concerned country.

<<<<>>>>

¹ Répertoire National des Certifications Professionnelles.

Diploma in Nautical Cartography

Duration

9 months (period defined by SHOM according to the internal training needs)

This course is intended to provide specialized training to marine cartographers.

The 1st part (5 months) includes general scientific training, hydrographic training, including geodesy, remote sensing, and information about laws of the sea and quality.

The 2nd part is a practical training in SHOM cartographic department.

The course is not certified by IHO, but the program is defined based on cartography category B IHO specifications

Language used

French

Entry requirements

Internal SHOM candidates are recruited by an internal procedure in the French administration or by external competitive examination.

Foreign candidates are admitted after consideration of their academic background. This must be at the level of scientific or technical Baccalaureate.

Fees

On case-by-case basis. Please contact drh-for-d@shom.fr

Open to foreign students?

Yes

Availability of scholarships

Yes, through the appropriate diplomatic channels

Applications should be addressed to:

French Embassy in the concerned country.

<<<<>>>>

Specific training courses

SHOM's training school may provide bespoke short courses in French language on specific hydrographic, oceanographic or cartographic related items. The list of these courses can be obtained from drh-for-d@shom.fr, or from the school at the address given above.

<<<<>>>>

Name and address of Education Institution

Ecole nationale supérieure des Techniques Avancées (ENSTA-Bretagne) BRETAGNE France	Website : http://www.ensta-bretagne.fr
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Courses

ENSTA-Bretagne Engineer Training Course (option Hydrography-Oceanography)
 (Recognized by the FIG/IHO International Advisory Board at Category A)

Duration

2 or 3 years

The first year is devoted to the development of the technical and scientific background of students. During the second and third years, the subjects Hydrography, Oceanography, Geosciences and Cartography are developed. Computer science and data processing are taught throughout the three years.

Language used

French

Entry requirements

Admission as a "pupil" :

- a) First year
 1. Competitive examination (level : scientific courses to prepare entry in Higher Schools for French students) or selection by an Examination Jury with a BSc.
 2. Foreign students must take a written examination, the final selection being made by an Examination Jury.
- b) Second year, in accordance with academic background (License/Master level) for French and foreign students A good knowledge of French is required. Only students admitted as "pupils" can be awarded the diploma of engineer.

Fees

About 540 euros per year (tuition only).

Open to foreign students?

Yes

Availability of scholarships

Yes, through the appropriate diplomatic channels

Applications should be addressed to:

French Embassy in the concerned country.

<<<<>>>>

GERMANY

GERMANY

Name and address of Education Institution

Präsident des Bundesamtes für Seeschifffahrt und Hydrographie Bernhard-Nocht-Strasse 78 Postfach 30 12 20 D 20305 HAMBURG Germany	Teleph: +49 (040) 3190-0 Fax: +49 (040) 3190-5000 Telex: 211 138 BSH HH D INTERNET WEB page : www.bsh.de
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Courses

1. Practical Training in Hydrographic Surveying
--

Duration

As required

Language used

German or English

Entry requirements

Each applicant's case is judged on an individual basis on the information furnished by sponsoring hydrographic department.

Open to foreign students?

Yes

Applications should be addressed to:

Hydrographer, (address above) via German Embassy in the applicant's country, preferably by the Institution interested in the training of the applicant.

<<<<>>>>

2. Practical Training in Nautical Publications

Duration

As required

Language used

German or English

Entry requirements

Master's licence (foreign going)

Open to foreign students?

Yes

Applications should be addressed to:

Hydrographer, (address above) via German Embassy in the applicant's country, preferably by the Institution interested in the training of the applicant.

<<<<>>>>

3. Practical Training in Nautical Cartography

Duration

As required

Language used

German or English

Entry requirements

Cartographic and surveying experience

Open to foreign students?

Yes

Applications should be addressed to:

Hydrographer, (address above) via German Embassy in the applicant's country, preferably by the Institution interested in the training of the applicant.

<<<<>>>>

Name and address of Education Institution

HafenCity University Hamburg -Geomatics- Hebebrandstr. 1 22297 HAMBURG Germany	Teleph : +49 (0) 40 42827 5393 Fax : +49 (0) 40 42827 5359 Web Page= www.hcu-hamburg.de/geomatik/ Contact : Prof. Dr. Volker Boeder Email : volker.boeder@hcu-hamburg.de
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Courses

Master of Science in Geomatics / Specialization Hydrography
(Recognized by the FIG/IHO International Advisory Board at Category A)

Duration

2 Years

Language used

English

Entry requirements

Diploma in surveying and related fields, usually B.Sc.

Open to foreign students

Yes

Applications should be addressed to:

HafenCity University Hamburg
(See address above)

<<<<>>>>

Name and address of Education Institution

Hamburg Port HPTI Training Institute GmbH Überseezentrum Schuhmacherwerder D 20457 HAMBURG Germany	Teleph : + 49 (0)40 788 780 Fax : + 49 (0) 40 788 78 178 E-mail = hpti@hpti.de
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Courses

1. Training Course in Hydrographic Surveying (Ports/near Coastal)

Duration

9 months

Language used

German or English

Entry requirements

Some relevant surveying/hydrographic/seafaring experience

Fees

Apply to HPTI for full details

Open to foreign students?

Yes, open to foreign students. Can be used with German government scholarships.

Applications should be addressed to:

Address above

<<<<>>>>

GREECE

GREECE

Name and address of Education Institution

Hellenic Navy Training Command/Palaskas Training Centra	Hellenic Navy Hydrographic Service TGN 1040, ATHINAI Greece Teleph: + 30(1) 6442966, 6442971, 6442986 Fax: + 30(1) 6517811, 6520224 E-mail: hydrose@ath.forthnet.gr
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Courses

1. Petty Officers Hydrographic Course
--

Duration

118 days

Language used

Greek

Entry requirements

- Navy petty officers with a minimum of one year service on board
- High school graduates
- Working knowledge of Greek language

Open to foreign students?

Yes

Applications should be addressed to:

Naval Attachés at the Greek Embassy in the applicant's country or through appropriate diplomatic channels in Greece. Admissions will be authorized by the Ministry of Foreign Affairs upon verification of the feasibility at the Navy general staff.

<<<<>>>>

2. Petty Officers Nautical Cartography Course
--

Duration

118 days

Language used

Greek

Entry requirements

- Navy petty officers
- High school graduates
- Working knowledge of the Greek language

Open to foreign students?

Yes

Applications should be addressed to:

Naval Attaches at the Greek Embassy in the applicant's country or through appropriate diplomatic channels in Greece. Admissions will be authorized by the Ministry of Foreign Affairs upon verification of the feasibility at the Navy general staff.

<<<<>>>>

INDIA

INDIA

Name and address of Education Institution

The Officer-in-Charge National Hydrographic School C/O Headquarters, GOA Area Vasco-da-Gama GOA – 403 8023 India	
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Courses

1. Basic Hydrographic Course

Duration

19 Weeks; A pre-attachment of 4 weeks for Basic Science & Mathematics may be required for foreign students.

Language used

English

Entry requirements

- a) University (Bachelor's) Degree with Physics, Mathematics and the other as the ancillary subject.
- b) A naval officer in possession of a Watch Keeping Certificate and 2 years sea experience.
- c) Civilian officers attached to Hydrographic Survey Organization with academic background as at a) may be also considered for the course.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
 Ministry of External Affairs,
 Economic Division
 New Delhi - 110 011
 With a copy to Chief of Naval Staff (Directorate of Naval Trg)
 Naval Headquarters,
 New Delhi - 110 011
 India

<<<<>>>>

1. Long Hydrographic Course

(Recognized by the FIG/IHO International Advisory Board at Category A in combination with the Basic Hydrographic Course)

Duration

41 Weeks; A pre-attachment of 4 weeks for Basic Science & Mathematics may be required for foreign students.

Language used

English

Entry requirements

- a) University (Bachelor's) Degree with Physics or Mathematics as the main subjects and the other as ancillary.
- b) Should have qualified in the Basic Hydrographic Course or an equivalent recognised course.
- c) Must have a minimum of 2 1/2 years practical experience in Hydrographic Surveying on completion of Basic Hydrographic Course.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
 Ministry of External Affairs,
 Economic Division
 New Delhi - 110 011
 With a copy to Chief of Naval Staff (Directorate of Naval Trg)
 Naval Headquarters,
 New Delhi - 110 011
 India

<<<<>>>>

2. Free Course in Hydrography
(Recognized by the FIG/IHO International Advisory Board at Category B)

Duration

4 weeks pre-course (refresher) + 19 weeks

Language used

English

Entry requirements

- a) Bachelor Science degree in Physics and Mathematics
- b) Bridge Watch Keeping Certificate

Open to foreign students?

Yes. International course.

Applications should be addressed to:

Interested government authorities responsible for hydrography should forward the nominations of their candidates (Annex 1) to the:

Director of Naval Training,
Sena Bhawan,
Naval Headquarters,
New Delhi - 110 011,
India.

Fax +91 011 3794855, through the Indian Embassy in their country.

A copy of this application should also be endorsed to the:

Chief Hydrographer to the Government of India,
National Hydrographic Office,
P.O. Box - 75, 107-A, Rajpur Road,
Dehradun - 248 001,
India.

Fax: +91 0135 748373.

Other remarks

Gratis. The Government of India will cover accommodation, food, medical expenses, internal travel and other allowances.

<<<<>>>>

3. Advance Hydrographic Course

Duration

10 Weeks; A pre-attachment of 4 weeks for Basic Science & Mathematics may be required for foreign students.

Language used

English

Entry requirements

- a) Should have successfully completed Long Hydrographic Course or any Hydrographic Course recognized at Category "A" by the IHO/FIG Advisory Board.
- b) Should have minimum 8 years practical experience in Hydrographic Surveying after completion of Long Hydrographic Course.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

<h4>4. Surveying Recorder Class I</h4>
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Duration

15 Weeks

Language used

English

Entry requirements

A minimum of 2 years practical experience in Hydrographic Surveying as Survey Recorder Class II.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

5. Surveying Recorder Class II

Duration

14 Weeks.

Language used

English

Entry requirements

A minimum of 2 1/2 years practical experience in Hydrographic Surveying as Survey Recorder Class III.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

6. Surveying Recorder Class III
--

Duration

16 Weeks.

Language used

English

Entry requirements

Must have passed High School with Physics and Mathematics.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi – 110 011
India

<<<<>>>>

7. Nautical Cartography Course (Officers cadre)
--

Duration

1 Year

Language used

English

Entry requirements

Degree in Mathematics, Geography or Geophysics.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

8. Nautical Cartography Course for Cartographic draughtsmen

Duration

4 to 6 months.

Language used

English

Entry requirements

High Secondary Education with a diploma in draughtsmanship.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

9. Subordinate Staff Course

Duration

10 Weeks.

Language used

English

Entry requirements

- a) Intermediate/10 + 2/ Higher Secondary or equivalent with Physics and Mathematics.
- b) At least 2 years experience in Hydrographic Surveying.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

<<<<>>>>

10. Refresher Course

Duration

10 Weeks.

Language used

English

Entry requirements

- a) BSc Degree with Physics and Mathematics or a degree in Civil Engineering or equivalent qualification with at least 2 years experience in Hydrographic Surveying.
- or
- SR-I of Indian Navy with at least 8 years experience in Hydrographic Surveying after completion of SR-I Course.
- b) Employed at least Class-II officer/ Group B officer.

Open to foreign students?

Yes

Availability of scholarships

By request to Indian Government by the applicant's Government.

Applications should be addressed to:

The Secretary to the Govt. Of India,
Ministry of External Affairs,
Economic Division
New Delhi - 110 011
With a copy to
Chief of Naval Staff (Directorate of Naval Trg)
Naval Headquarters,
New Delhi - 110 011
India

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INDONESIA

INDONESIA

Name and address of Education Institution

Kepala Dinas Hidro-Oseanografi (KADISHIDROS) Jalan Pantai Kuta V N° 1 JAKARTA 14430 Indonesia	Teleph: + 62 21 684 809 Fax: + 62 21 684 819, 684 809
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Courses

Naval Officers Training Course (SEHIDRAL) (Recognized by the FIG/IHO International Advisory Board at Category B)
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Duration

7 months

Language used

Bahasa Indonesia

Entry requirements

The candidates to this course must be :

- a) Naval Officers (Naval Academy specialized in Naval Operations Corps)
- b) Merchant Navy Officers (Deck Officers)
- c) University graduate (Geosciences branch)

Candidates must have at least 2 years' practical experience in hydrographic surveying.

Applications should be addressed to:

Kepala Dinas Hidro-Oseanografi
 (KADISHIDROS)
 Jalan Pantai Kuta V N° 1
 JAKARTA 14430
 Indonesia
 Tel: +62 21 684809
 Fax: +62 21 684819, 684809

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Name and address of Education Institution

Institut Teknologi Bandung Geodesy Department JL Ganesha 10 BANDUNG 40132 Indonesia	Teleph: + 62 22 84827 – 84252/58 Ext.237 Fax: + 62 22 438 338
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Courses

1. Hydrographic Education

Duration

4-5 years divided into 9 semesters, following the Semester Credit System (SKS)

Language used

Bahasa Indonesia

Entry requirements

- a) To have passed the final examination of the Senior Higher School (SMTA) in Mathematics and Physics.
- b) To pass the Government Universities selection tests managed by the Ministry of Education and Culture through a Government University selection examination.

Open to foreign students?

Yes, provided the entry requirements are fulfilled.

Applications should be addressed to:

Address above.

<<<<>>>>

ITALY

ITALY

Name and address of Education Institution

Istituto Idrografico della Marina Passo Osservatorio 16134 GENOVA Italy	Teleph: + 39 010 24431 Fax: + 39 010 262400 E-mail: iim@assicomitalia.it
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Courses

<p>1. Specialization Course in Hydrography (Recognized by the FIG/IHO International Advisory Board at Category A)</p>
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Duration

70 weeks (57 weeks of theory and 13 weeks of practice)

Language used

Italian

Entry requirements

Lieutenants or sub-lieutenants only qualified as navigation and Communication officers. For civilians a degree in Mathematics, Engineering or Physics is required.

Fees

In compliance with bilateral agreements (only for foreign students)

Open to foreign students?

Foreign students with good knowledge in Italian language are admitted. Applicants must have equivalent qualifications and meet physical requirements as determined by the Italian Ministry of Defence.

Applications should be addressed to:

Defence attachés at the Italian Embassy in applicants' country or through the appropriate diplomatic channels in Italy. Admissions will be authorized by the Italian Foreign Office upon verification of technical feasibility at general Staff level.

<<<<>>>>

2. Qualification in Hydrography

Duration

38 weeks (22 weeks of theory and 16 weeks of practice)

Language used

Italian

Entry requirements

Navy sub-lieutenants or holders of High School Degree.

Fees

In compliance with bilateral agreements (only for foreign students)

Open to foreign students?

Yes.

Applications should be addressed to:

Navy General Staff
00100 ROMA

<<<<>>>>

3. Hydrographic and Oceanographic Service Qualification

Duration

38 weeks (22 weeks of theory and 16 weeks of practice)

Language used

Italian

Entry requirements

To be a Navy Petty Officer qualified in Communications or Sub-surface war. Holders (for civilians) or High School Degree.

Fees

In compliance with bilateral agreements (only for foreign students)

Open to foreign students?

Foreign students with good knowledge in Italian language are admitted. Applicants must have equivalent qualifications and meet physical requirements as determined by the Italian Ministry of Defence.

Applications should be addressed to:

Defence attachés at the Italian Embassy in applicants' country or through the appropriate diplomatic channels in Italy. Admissions will be authorized by the Italian Foreign Office upon verification of technical feasibility at General Staff level.

<<<<>>>>

4. Compensation of Magnetic Compass

Duration

4 weeks

Language used

Italian

Entry requirements

The course is addressed to Italian Navy N.C.O.

Foreign students with good knowledge of Italian language and equivalent qualifications are admitted.

Fees

In compliance with bilateral agreements.

Open to foreign students?

Yes.

Applications should be addressed to:

Defence attachés at the Italian Embassy in applicants' country or through the appropriate diplomatic channels in Italy. Admissions will be authorized by the Italian Foreign Office upon verification of technical feasibility at General Staff level.

<<<<>>>>

JAPAN

JAPAN

Name and address of Education Institution

1.	Hydrographic and Oceanographic Department. Japan Coast Guard	3-1, Tsukiji 5-chome, Chuo-ku, TOKYO 104-0045 Japan Teleph: + 81 3 3541 3685 Fax: + 81 3 3248 1250 E-mail : ico@hd.go.jp
2.	Japan Coast Guard School	2001 Aza-Nagahama, Maizurushi, KYOTO Pref. 625-8503 Japan Teleph: + 81 773 62 3520 E-mail: gakko-somu@kaiko.mlit.go.jp
3.	Japan Coast Guard Academy	5-1, Wakaba-cho, KURE-SHI 737-8512 Japan Teleph: + 81 823 21 4961 Fax: + 81 823 21 4961 E-mail: hodai-somu@kaiko.mlit.go.jp

Courses

1. Group Training Course in Hydrographic Survey
(Recognized by the FIG/IHO International Advisory Board at Category B)

Duration

7 months

(May to December every year)

Language used

English or through interpretation of Japanese into English.

Entry requirements

Applicants should:

- be technical college graduates or equivalent with more than 2 years' experience in hydrographic services, having obtained credits for two years' course of mathematics and physics on the level of technical college or equivalent.
- be under 40 years of age; have good knowledge of English
- be currently employed in the national hydrographic offices
- not be serving in the military.

Fees

The government of Japan provides with the following : Round-trip air ticket between an international airport designated by JICA and Japan, accommodation, boarding and other allowances.

Open to foreign students?

The course is specifically designed for foreign students (10 in number) from developing countries who are employed by their national hydrographic offices or related organizations.

Applications should be addressed to:

The Embassy of Japan (or JICA office) through the co-ordinating governmental organization in the applicant's country.

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<p>2. Ocean Science Curriculum</p>

<p>(Recognized by the FIG/IHO International Advisory Board at Category B)</p>

Duration

1 year

Language used

Japanese

Entry requirements

- a) To be of Japanese nationality
- b) To be a graduate from a Senior Higher School or a Higher Educational institution.
- c) To pass a written examination, character test and test of physical strength.

Open to foreign students?

No

Applications should be addressed to:

Address above.

Other remarks

Gratis.

<<<<>>>>

<p style="text-align: center;">3. Advanced Course in Hydrography (Recognized by the FIG/IHO International Advisory Board at Category A)</p>
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Duration

1 year

Language used

Japanese

Entry requirements

- a) To have successfully passed the Ocean Science Curriculum of the Maritime Safety School
- b) To have the support or recommendation of a superior.
- c) To pass a written examination, character test and test of physical strength.

Open to foreign students?

NO

Applications should be addressed to:

Address above.

Other remarks

Gratis.

<<<<>>>>

MALAYSIA

MALAYSIA

Name and address of Education Institution

Centre for Hydrographic Studies Faculty of Geoinformation Science and Engineering Universiti Teknologi Malaysia Locked Bag 791 80990 JOHOR BAHRU JOHOR DARUL TA'ZIM Malaysia	Fax: + (607) 5566163 E-mail: chs@fksg.utm.my
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Courses

1. Course in Hydrography – Hydro II
 (Recognized by the FIG/IHO International Advisory Board at Category B)

Duration

5½ months

Language used

English

Entry requirements

1. To have passed the course Hydro I.

Open to foreign students?

Yes

Applications should be addressed to:

Address above.

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2. Course in Hydrography – Hydro II
(Recognized by the FIG/IHO International Advisory Board at Category A
in conjunction with the Hydro I course)

Duration

5½ months

Language used

English

Entry requirements

- a) Certificate or diploma in land surveying/Civil engineering or other related fields
- b) At least 2 years working experience in the field of land/hydrographic surveying or other related fields.

Open to foreign students?

Yes

Applications should be addressed to:

Address above.

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MEXICO

MEXICO

Name and address of Education Institution

Contralmirante CG DEM. José Jesús OCAÑA GARCIA Eje 2 Ote. Tramo H. Esc. Naval Militar No. 861. Edif. B 1er Nivel. Col Los Cipreses. Delegación Coyoacán. C.P. 04830 CIUDAD DE MEXICO	Teleph: + (52) 55 56246500 ext. 7239 Fax: + (52) 55 5679 80 45 E-mail: asunext.hidro@gmail.com
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Courses

<h4>1. Hydrography and Cartography</h4>

Duration

1 year

Language used

Spanish

Entry requirements

Navy Officers (Ensign or Lieutenant)

Open to foreign students?

No

Applications should be addressed to:

Eje 2 Ote. Tramo H. Esc. Naval Militar
 No. 861. Edif. B 1er Nivel. Col Los Cipreses.
 Delegación Coyoacán.
 C.P. 04830
 CIUDAD DE MEXICO
 Teleph: + (52) 55 56246500 ext. 7239
 Fax: + (52) 55 5679 80 45
 E-mail: asunext.hidro@gmail.com

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NETHERLANDS

NETHERLANDS

Name and address of Education Institution

Technical University Delft Netherlands P.O. Box 5 2600 AA DELFT The Netherlands	Teleph : + 31 15 278 9111 Fax: + 31 15 278 1855 E-mail : info@tudelft.nl Website: www.tudelft.nl
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Courses

Master of Science Geomatics

Duration

MSc: 24 months

Language used

English

Entry requirements

Background

Applicants should have a BSc degree or equivalent from a recognized university in a discipline related to the course, preferably combined with working experience in a relevant field. Even if the applicant satisfies the overall admission requirements, acceptance is not automatic.

English language

As all courses are given in English, proficiency in the English language is a prerequisite. Those who have English as their mother tongue, or were taught in the English language up to university level, are exempted from an English language test.

English language test	Minimum level
TOEFL Interned-based Test	80
IELTS	6.0
Cambridge	CPE/CAR

Please note : The requirements when applying for fellowships may vary according to the regulations of the fellowship provider.

Computer skills

Although introductory lessons on computer skills are scheduled in the degree and diploma programmes, applicants lacking computer experience are strongly advised to follow basic courses in their home countries.

Fees

Dependent on status (see website): varying €1500 – 8500 per year.

Open to foreign students?

Yes.

Applications should be addressed to:

Student Registration Office
PO Box 5,
2600 AA,
DELFT
The Netherlands
Teleph : +31 15 278 9111
Fax: +31 15 278 1855
e-mail : info@tudelft.nl

Other remarks

For more information about studying at TU Delft, please visit our Website www.tudelft.nl

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Name and address of Education Institution

International Institute for Geo-Information Science and earth Observation (ITC) Postbut 6 7500 AA ENSHEDE The Netherlands	Teleph: +31 (0) 53 487 4444 Fax: +31 (0) 53 487 4400 E-mail: pr@itc.nl
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Courses

Master of Science and Master degree programme in Geo-information Science and Earth Observation

Duration

Master : 12 months

MSc: 18 months

Language used

English

Entry requirements

Background

Applicants should have a BSc degree or equivalent from a recognized university in a discipline related to the course, preferably combined with working experience in a relevant field. Even if the applicant satisfies the overall admission requirements, acceptance is not automatic.

English language

As all courses are given in English, proficiency in the English language is a prerequisite. Those who have English as their mother tongue, or were taught in the English language up to university level, are exempted from an English language test.

English language test	Minimum level
TOEFL Paper-based Test (PBT)	550
TOEFL Internet-based test	79-80
British Council/IELTS	6.0
Cambridge	CPE/CAE

Please note: The requirements when applying for fellowships may vary according to the regulations of the fellowship provider.

Computer skills

Although introductory lessons on computer skills are scheduled in the degree and diploma programmes, applicants lacking computer experience are strongly advised to follow basic courses in their home countries.

Fees

Master : Euro 6,200

MSc: Euro 9,500

Open to foreign students?

Yes

Applications should be addressed to:

ITC - Student Registration Office

PO Box 6

7500 AA Enschede

The Netherlands

Teleph: +31 (0) 53 487 44 44

Fax: +31 (0) 53 487 42 59

E-mail: education@itc.nl

Office hours: Monday to Friday 9:00 am to 5:00 pm (Central European Time)

Other remarks

ITC's degree programme's are accredited and registered in the national register for higher education (CROHO) with number 75014 for the Master of Science and number 70043 for the Master programme.

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Name and address of Education Institution

Skilltrade BV & STC BV	
Skilltrade BV PO Box 111 2250AC VOORSCHOTEN The Netherlands Teleph: +31 71 561 13 65 Fax: +31 71 561 15 03 E-mail: MjT@skilltrade.nl Web site: www.skilltrade.nl	STC BV LLoydstraat 300 3024EA ROTTERDAM The Netherlands Teleph: +31 10 448 60 00 Fax: E-mail: wiegman@stc-r.nl Web site: www.stc-bv.nl

Courses

<p>Course in Practical Hydrography (Recognized by the FIG/IHO Advisory Board at Category B)</p>

Duration

13 weeks theory – Our course runs twice a year, start in January and August

Language used

English

Entry requirements

- Completion of at least a HNC level technical education with basic knowledge of mathematics and physics.
- Regular proficiency in the operation of computers and software including knowledge of the use of the internet, office applications like MS-Excel and Word as well as basic file handling skills using windows based operating systems.
- Candidates must have a good command of the English language in line with the levels set by the IELTS (the International English Language testing System).

These requirements are checked using an assessment form before admission to the course. If the assessment form proves inconclusive, an interview and/or entry exam will be taken.

Fees

Euro 10.400 (2008 e 2009)

Open to foreign students?

Yes, approximately 60% of our students are foreign.

Applications should be addressed to:

Maarten-Jan THEIJS – MjT@skilltrade.nl

Gert-Jan WIEGMAN – wiegman@stc.r.nl

Other remarks

The course consists on 13 weeks theory followed by a 4 weeks trainee period. At the end of the course we aim for the students to have a good practical comprehension of:

- The problems, methods and tasks involved in Hydrographic Surveying.
- When, where and why which theory should be applied.

Most students on the course already work in the Hydrographic Survey Industry, although without a formal education in this field or with related education. The student groups are always a good mix of age, related backgrounds and nationalities from various parts of the Hydrographic Survey Industry and different compagnies.

In order to be able to offer good practical education the course:

- Takes a maximum of 14 students
- Cooperates with the industry (weekly guest lecture, workshop, visit or practical exercise)
- All lecturers are work in the survey industry or related fields.
- The course is conducted with a practical project for which the students have to plan and execute their own project from initialisation and mobilisation up to data processing and reporting.

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Name and address of Education Institution

Maritiem Instituut Willem Barentsz Department of Hydrography Dellewal 8 P.O. Box 26 8880 AA TERSCHELLING-WEST The Netherlands	Teleph: +31 (0) 562 446600 Fax: +31 (0) 562 446601 e-mail: r.e.van.ree@mi.nhl.nl
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Courses

Hydrographic Surveyor

Duration

4 years

Language used

Dutch

Entry requirements

HAVO (Secondary school). Mathematics - qualification B/ Physics -qualification B.

Fees

Euros 1675 per year

Open to foreign students?

Yes

Availability of scholarships

None

Awarded Category A recognition by the International Advisory Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers.

Applications should be addressed to:

Address above.

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NEW ZEALAND

NEW ZEALAND

Name and address of Education Institution

University of Otago Department of Surveying P.O. Box 56 DUNEDIN New Zealand	Teleph: + 64 (03) 379 1100 Fax: + 64 (03) 479 7586 e-mails: surveying@otago.ac.nz john@albers.otago.ac.nz
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Courses

Bachelor of Surveying, Postgraduate Diploma, master of Science, PhD

Duration

1 - 6 years

Language used

English

Entry requirements

Standard University entrance requirements. Once a student is registered at the University and has completed first year courses he can enrol for: Hydrography I and Hydrography II, which are part of the Bachelor of surveying degree. Postgraduate study in hydrography is available.

Open to foreign students?

Yes

Availability of scholarships

Yes for undergraduates, address for inquiries for scholarship to: Ms A. Knight

Undergraduate Scholarships

University of Otago

Applications should be addressed to:

The Academic Registrar

Mr A.T. Gray

University of Otago

P.O. Box 56,

Dunedin

New Zealand

<<<<>>>>

Name and address of Education Institution

Royal New Zealand Navy Hydrographic School HMNZS Tamaki DEVONPORT, AUCKLAND New Zealand New Zealand	Teleph: + 64 (09) 44 55 774 Fax: + 64 (09) 44 55 741
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Courses**1. Able Hydrographic Assistant Course (Refer RNZN Course No. 0701)**Duration

13 weeks, course dates are not fixed

Language used

English

Entry requirements

Minimum of 3 years secondary education
Completed basic seamanship
Good technical English and good mathematics

Open to foreign students?

Yes, the course comprises a 13 week programme held at HMNZS Tamaki, the training establishment of the RNZN. The course involves practical survey field exercises. A very basic course enabling naval ratings to carry out simple hydrographic duties under supervision.

Availability of scholarships

Assistance can be provided under the Mutual Assistance Programme (MAP) currently encompassing 8 South Pacific and SE Asian nations.

Applications should be addressed to:

Chief of Defence Force
Headquarters NZ Defence Force
Private Bag
Wellington,
New Zealand

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2. Leading Hydrographic Assistant Course (Refer RNZN Course No. 0702)
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Duration

8 weeks, course dates are not fixed

Language used

English

Entry requirements

Minimum of 3 years secondary education
Completed 18 months as an Able hydrographic assistant
Good technical English and good mathematics

Open to foreign students?

Yes, the course comprises a 8 week programme held at HMNZS Tamaki, the training establishment of the RNZN. The course involves practical survey field exercises and a task book for completion of job. A course enabling naval ratings to carry out simple hydrographic duties without supervision.

Availability of scholarships

Assistance can be provided under the Mutual Assistance Programme (MAP) currently encompassing 8 South Pacific and SE Asian nations.

Applications should be addressed to:

Chief of Defence Force
Headquarters NZ Defence Force
Private Bag
Wellington
New Zealand

<<<<>>>>

PAKISTAN

PAKISTAN

Name and address of Education Institution

Hydrographic Department Naval Headquarters 11, Liaquat Barracks KARACHI – 75530	Teleph: + 92 21 48506151-4 Fax: + 92 21 9201623 e-mails: hydropk@bol.edu.pk hydropk@paknavy.gov.pk
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Courses

Basic Hydrographic Course (for Officers)

Duration

12 weeks (08 June to 29 August 2009)

Language used

English

Entry requirements

Officers CPO/Sailors and Civilians

Open to foreign students?

Gulf countries

Applications should be addressed to:

Hydrographic Department
 Naval Headquarters
 11, Liaquat Barracks
 KARACHI – 75530

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Basic Cartographic Course (for Officers)

Duration

5 weeks (07 September to 10 October 2009)

Language used

English

Entry requirements

Officers CPO/Sailors and Civilians

Open to foreign students?

Gulf countries

Applications should be addressed to:

Hydrographic Department

Naval Headquarters

11, Liaquat Barracks

KARACHI – 75530

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PERU

PERU

Name and address of Education Institution

Direccion de Hidrografia y Navegacion de la Armada Avda. Gamarra No. 500 Chucuito CALLAO Peru	Teleph: + 51 14 429 8925 – 429 96868 Fax: + 51 14 465 2995 e-mail: dihidronav@dhn.mil.pe
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Courses

Hydrography (Recognized by the FIG/IHO International Advisory Board at Category B)
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Duration

1 year

Language used

Spanish

Entry requirements

To be a naval officer

Open to foreign students?

Yes

Applications should be addressed to:

Estado Mayor General de la Marina
 Marina de Guerra del Perú

Other comments:

The course includes the following Options, in accordance with the Standards of Competence for Hydrographic Surveyors established by the IHO/FIG/ICA:

01. Hydrography for Nautical Charting
02. Hydrography for Coastal Zone Management
05. Remote Sensing
06. Inland waters hydrography (rivers and lakes)

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POLAND

POLAND

Name and address of Education Institution

Naval Academy Ul. Ćmidowicza 71 81-810 GDYNIA Poland	Szef Biura Hydrograficznego Maynarki Wojennej 81-912 GDYNIA 12 Poland Teleph: + 48 586266482 Fax: + 48 586263680
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Courses

1. Hydrographic Course, Class B
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Duration

722 hours, ≈ 104 days

Language used

Polish, Russian

Entry requirements

- High school degree
- Health certificate
- Employer's letter of reference

Open to foreign students?

Yes

Availability of scholarships

Yes

Applications should be addressed to:

Naval Academy
 Ul. Ćmidowicza 71
 81-819 GDYNIA
 Poland

and

Szef Biura Hydrograficznego
 Maynarki Wojennej
 81-912 GDYNIA 12
 Poland
 Teleph : 48 586266482
 Fax : 48 586263680

2. Hydrographic Course, Class B
--

Duration

530 hours, ≈ 76 days

Language used

Polish, Russian

Entry requirements

- University degree
- Health certificate
- Employer's letter of reference

Open to foreign students?

Yes

Availability of scholarships

Yes

Applications should be addressed to:

Naval Academy
Ul. Ćmidowicza 71
81-819 GDYNIA
Poland

And

Szef Biura Hydrograficznego
Maynarki Wojennej
81-912 GDYNIA 12
Poland
Teleph : 48 586266482
Fax : 48 586263680

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PORTUGAL

PORTUGAL

Name and address of Education Institution

School of Hydrography and Oceanography Instituto Hidrográfico Portuguese Navy Ruas das Trinas No. 49 1249-093 LISBOA Portugal	Teleph: + 351 210 943 285 Fax: + 351 210 943 299 e-mail: escolahidrografica@hidrografico.pt
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Courses

1. Specialization Course in Hydrography
 (Recognized by the FIG/IHO Advisory Board at Category A)

Duration

44 weeks

Language used

Portuguese

Entry requirements

- Naval Officers
- Bachelor of science degree in Physics, mathematics or Engineering

Fees

- In compliance with bilateral agreements (only for foreign students)
- Information available on application, for civilian home students

Open to foreign students?

Yes

Applications should be addressed to:

- Defence attaché at the Portuguese Embassy in applicant's country or through the appropriate diplomatic channels
- Admiral Chief of naval Staff, for civilian home students

Other remarks

- Course recognized with optional units 1 – “Nautical Charting Hydrography” and 2 – “Hydrography for Coastal Zone Management”
- Informal requires to the Director of instruction, at the address above

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<p style="text-align: center;">2. Technical Course in Hydrography (Recognized by the FIG/IHO Advisory Board at Category B)</p>

Duration

44 weeks

Language used

Portuguese

Entry requirements

- Navy petty officers
- High school graduates with obligatory subjects : Physics and mathematics

Fees

- In compliance with bilateral agreements (only for foreign students)
- Information available on application, for civilian home students

Open to foreign students?

Yes.

Applications should be addressed to:

- Defence attaché at the Portuguese Embassy in applicant's country or through the appropriate diplomatic channels
- Admiral Chief of naval Staff, for civilian home students

Other remarks

- Course recognized with optional units 1 – “Nautical Charting Hydrography” and 2 – “Hydrography for Coastal Zone Management”
- Informal requires to the Director of instruction, at the address above

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REPUBLIC OF SOUTH AFRICA

REPUBLIC OF SOUTH AFRICA

Name and address of Education Institution

Department of Civil Engineering and Surveying Cape Technikon P.O. Box 652 CAPE TOWN 8000 Republic of South Africa	Teleph: + 27 (021) 460 3045/6 Fax: + 27 (021) 460 3710 e-mail: postmaster@ctech.ac.za
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Courses

1. National Diploma (ND) in Cartography

Duration

3 years full-time study.

Language used

English

Entry requirements

Grade 12 (Senior certificate) with at least five subjects on higher or standard grade, or equivalent. Foreign students are required to have their qualifications evaluated.

Fees

Available on application from the Faculty Office.

Open to foreign students?

Yes. Foreign students who are not citizens of one of the Southern African Development Countries (SADC) are not eligible for accommodation in a Technikon residence.

Availability of scholarships

Very limited

Applications should be addressed to:

The Registrar, Cape Technikon at above address.

<<<<>>>>

1. Baccalaureus Technologiae (B Tech. Degree) : Cartography

Duration

Two years part-time

Entry requirements

A National Diploma: Cartography or equivalent qualifications will an average pass-mark of 60% in the third year of study.

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Name and address of Education Institution

The Hydrographer SA Navy Hydrographic Office Private Bag XI TOKAI 7966 Republic of South Africa	Teleph: + 27 (021) 787 2408 Fax: + 27 (021) 787 2228, 787 2233 e-mail: hydrosan@iafrica.com
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Courses**Survey Recorder Part 1, Part 2, Part 3 and Basic Survey for Officers**Duration

Survey Recorder Part 1	2 courses per year	4 weeks
Survey Recorder Part 2	1 course per year	6 weeks
Survey Recorder Part 3	1 course every 2 years	12 weeks
Basic Survey for Officers	1 course every 2 years	12 weeks

Language used

English

Entry requirements

SR Part 1.	Seaman (SR) SA Navy. Grade 12 with Maths and Science
SR Part 2.	Successfully passed Part 1 and have experience as crew and coxswain of survey launch.
SR Part 3.	Have passed MTR II. SR Part 2 qualified. Coxswain Part 2 Seamanship Part 2 qualified. Have +/- 5 years experience on a survey launch and land survey experience.
Basic Survey for Officers	Grade 12 with Maths and Science. Successfully passed MTO's Part 1. In possession of a Harbour Watch Keeping Certificate for a Survey Vessel. In possession of a Bridge Watch Keeping Certificate. Have completed 12 months probationary period on board a survey vessel.

Open to foreign students?

No

Applications should be addressed to:

Director Fleet Human Resources (DFHR) C/O above address

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RUSSIA

RUSSIA

Name and address of Education Institution

Admiral Makarov Maritime Academy ST PETERSBURG Russia	Fax: + 812 322 78 07 e-mail: gmamak@mail.wplus.net
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Courses

Course in Hydrography (Recognized by the FIG/IHO International Advisory Board at Category A)
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Duration

5 years and 6 months

Language used

Russian

Entry requirements

- a) Secondary Education (college) or Secondary Technical Education or Specialization.
- b) Age 18-35
- c) To pass competitive entrance written examination in Mathematics and Russian language.

Open to foreign students?

Yes (see Fees)

Applications should be addressed to:

Head of Admiral Makarov Maritime Academy
 (Address above)

Other remarks

Post-graduate course in Water Communications and Hydrography certification of the company Hypack.

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Name and address of Education Institution

St. Petersburg's Naval Institute 17 Lt. Schmidt Embankment ST PETERSBURG 199162 Russia	Fax: + 812 323 77 18
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Courses

Engineer-Hydrographer Training Curriculum (Recognized by the FIG/IHO International Advisory Board at Category A)
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Duration

255.5 weeks along 5 years

Language used

Russian

Entry requirements

- a) Male students aged 17 to 21.
- b) To be a graduate from a Secondary or Technical Secondary School or Undergraduate from a Higher School.
- c) To pass competitive examinations in Mathematics, Physics and Russian language.

Priority will be given to candidates having graduated with a Golden Medal.

Open to foreign students?

Yes

Applications should be addressed to:

Address above.

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SPAIN

SPAIN

Name and address of Education Institution

Escuela de Hidrografía Instituto Hidrográfico de la Marina Plaza San severiano, 3 11007 CADIZ Spain	Teleph : + 34 956 599 398 Fax: + 34 956 599 398 e-mail: ihmesp@fn.mde.es
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Courses

<p>Course in Hydrography “B” Level (Recognized by the FIG/IHO/ICA International Advisory Board)</p>
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Duration

10 months

Language used

Spanish

Entry requirements

- a) To be a naval Petty Officer.
- b) The applicant's country must be a member of the "Training Programme of Co-operation with Foreign Countries" of the Spanish Ministry of Defence.

Open to foreign students?

Yes

Availability of scholarships

The Spanish Ministry of Defence provides scholarships to foreign students attending the course in accordance with the “Training Programme of Co-operation with Foreign Countries”.

Applications should be addressed to:

The Defence Attaché/Naval Attaché in the Spanish Embassy of the concerned country.

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<p style="text-align: center;">Course in Hydrography “A” Level (Recognized by the FIG/IHO/ICA International Advisory Board)</p>
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Duration

10 months

Language used

Spanish

Entry requirements

- a) To be a naval officer
- b) The applicant's country must be a member of the "Training Programme of Co-operation with Foreign Countries" of the Spanish Ministry of Defence.

Open to foreign students?

Yes

Availability of scholarships

The Spanish Ministry of Defence provides scholarships to foreign students attending the course in accordance with the “Training Programme of Co-operation with Foreign Countries”.

Applications should be addressed to:

The Defence Attaché/Naval Attaché in the Spanish Embassy of the concerned country.

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**UNITED KINGDOM OF
GREAT BRITAIN AND
NORTHERN IRELAND**

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

Name and address of Education Institution

UK Hydrographic Office Admiralty Way TAUNTON Somerset TA1 2DN United Kingdom	Teleph : + 44 (0) 1823 337900 Fax: + 44 (0) 1823 284077 e-mail: peter.westcott@ukho.gov.uk Web Site : http://www.ukho.gov.uk
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Courses

1. Hydrographic Data Processing and Marine Cartography – 3 Modules (Recognised by FIG/IHO/ICA Advosory Board at Category B)

Duration

3 x 5 week modules

Module 1 – Marine Cartography

A practical introduction to marine cartography and chart construction. This module is recognised as part of the FIG –IHO – ICA Category B Certificate in Nautical Cartography. This course is available for offsite delivery

Module 2 – Hydrographic Data Processing

A practical introduction to hydrographic data processing, data assessment and resulting chart maintenance. This module is recognised as part of the FIG –IHO – ICA Category B Certificate in Nautical Cartography. This course is also available for offsite delivery.

Module 3 – The Electronic Navigational Chart

A highly practical introduction to the Electronic Navigational Chart (ENC), international standards for ENC, and the production and maintenance of ENC data. This module is recognised as part of the FIG –IHO – ICA Category B Certificate in Nautical Cartography. This course is also available for offsite delivery.

Language used

English

Entry requirements

- Good English with reasonable Technical English
- Candidates must be employed by the hydrographic office or similar organisation within their country.
- A background in cartography or hydrographic surveying or other relevant experience is desirable.

Fees

On application.

Open to foreign students?

Yes, providing the entry requirements are fulfilled.

Applications should be addressed to:

Cartographic Training Manager
UK Hydrographic Office
Admiralty Way
Taunton
Somerset TA1 2DN
United Kingdom

With a copy to:

The British Embassy in the applicants' country or British Naval Attaché or Defence Adviser.

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<p>2. Introduction to Hydrographic Data Processing and Marine Cartography – 2 Weeks</p>
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Duration

2 Weeks at the foreign Hydrographic Office

Language used

English

Entry requirements

- Good English with reasonable Technical English
- Candidates must be employed by the hydrographic office or similar organisation within their country.
- A background in cartography or hydrographic surveying or other relevant experience is desirable.

Fees

On application.

Open to foreign students?

Yes, providing the entry requirements are fulfilled.

Applications should be addressed to:

Cartographic Training Manager
UK Hydrographic Office
Admiralty Way
Taunton
Somerset TA1 2DN
United Kingdom

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3. Introduction to ENC – 2 Weeks

Duration

2 Weeks at the foreign Hydrographic Office

Language used

English

Entry requirements

- Good English with reasonable Technical English
- Candidates must be employed by the hydrographic office or similar organisation within their country.
- A background in cartography or hydrographic surveying or other relevant experience is desirable.

Fees

On application.

Open to foreign students?

Yes, providing the entry requirements are fulfilled.

Applications should be addressed to:

Cartographic Training Manager
 UK Hydrographic Office
 Admiralty Way
 Taunton
 Somerset TA1 2DN
 United Kingdom

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4. Electronic Charts (ENC) and ENC Production (5 Weeks) (Module 3) Introduction to Hydrographic Data Processing and Marine Cartography (5 Weeks)

Duration

2 x 5 week modules

Language used

English

Entry requirements

- Via invitation from UKHO
- Good English with reasonable Technical English
- Candidates must be employed by the hydrographic office or similar organisation within their country.
- A background in cartography or hydrographic surveying or other relevant experience is desirable.

Fees

Funded by UKHO Bursary.

Open to foreign students?

Yes, providing the entry requirements are fulfilled.

Applications should be addressed to:

Cartographic Training Manager
UK Hydrographic Office
Admiralty Way
Taunton
Somerset TA1 2DN
United Kingdom

With a copy to:

The British Embassy in the applicants' country or British Naval Attaché or Defence Adviser.

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Name and address of Educational Institution

FOST HM Upper Battery Road HMS DRAKE Plymouth PL2 2BG United Kingdom	Telephone: + 44 (0) 1752 557610 Fax: + 44 (0) 1752 555980
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Courses

1. Leading Seaman (HM) (Hydrographic)
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Duration

12 weeks

Language Used

English

Entry Requirements

Minimum of 2 years' sea surveying experience as an ABHM(H) or AB(SR) or equivalent. Good English with reasonable technical English

Open to Foreign Students

Yes, if sponsored by their Navy

Applications should be addressed to:

International Defence Training (RN)
 Room 137
 Phoenix Building
 HMS EXCELLENT
 Whale Island
 Portsmouth
 PO2 8ER
 UK

Through the British Naval Attaché or Defence Adviser

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<h2>2. Petty Officer (Surveyor)</h2>

Duration

14 weeks

Language Used

English

Entry Requirements

Minimum of 2 years' sea surveying experience as an LSHM(H) or LS(SR) or equivalent. Good English with reasonable technical English

Open to Foreign Students

Yes, if sponsored by their Navy

Applications should be addressed to:

International Defence Training (RN)
 Room 137
 Phoenix Building
 HMS EXCELLENT
 Whale Island
 Portsmouth
 PO2 8ER
 UK

Through the British Naval Attaché or Defence Adviser

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<h2>3. HM Common Time (Hydrographic Module)</h2> <h3>Recognised by the FIG/IHO International Advisory Board at Cat B</h3>

Duration

14 weeks

Language Used

English

Entry Requirements

Minimum of 1 years' sea going experience as a bridge watchkeeper
 Good technical English
 Good mathematics

Open to Foreign Students

Yes, if sponsored by their Navy

Applications should be addressed to:
International Defence Training (RN)
Room 137
Phoenix Building
HMS EXCELLENT
Whale Island
Portsmouth
PO2 8ER
UK

Through the British Naval Attaché or Defence Adviser

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<p style="text-align: center;">4. HM Advanced Survey Course Recognised by the FIG/IHO International Advisory Board at Cat A</p>

Duration
22 weeks

Language Used
English

Entry Requirements
Passed an FIG/IHO Cat B course
Minimum of 3 years' sea surveying experience
Good technical English
Good mathematics

Open to Foreign Students
Yes, if sponsored by their Navy

Applications should be addressed to:
International Defence Training (RN)
Room 137
Phoenix Building
HMS EXCELLENT
Whale Island
Portsmouth
PO2 8ER
UK

Through the British Naval Attaché or Defence Adviser

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**UNITED STATES OF
AMERICA**

UNITED STATES OF AMERICA

Name and address of Education Institution

Naval Oceanographic Office Attn : O1T 1002 Balch Blvd. STENNIS SPACE CENTER MS 39522-5001 United States of America	Teleph : + 1 (228) 688 5705 Fax: + 1 (228) 688 5287 E-mail: tony.d.taylor@navy.mil Web Site : http://www.oceanography.navy.mil/legacy/web/nipr-2006/ihmep.html
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Courses

International Hydrographic Management and Engineering Program (IHMEP)
 (Recognized by the FIG/IHO International Advisory Board at Category B)

Duration

6 months (April-September)

Language used

English - 70% comprehension level required

Entry requirements

Students must be military officers or government sponsored civilians who have successfully completed college-level differential calculus, trigonometry, and first-year physics. In addition, students should have some knowledge and experience in maritime navigation and electronics.

Fees

Contact the U.S. Security Assistance Officer or Military Advisory Group in the American Embassy located in the prospective student's country.

Open to foreign students?

Yes

Availability of scholarships

Financial assistance through U.S. Military Program.

Applications should be addressed to:

U.S. Security Assistance Officer or Military Advisory Group in the American Embassy located in the prospective student's country. In their absence, direct requests to U.S. Naval Attaché. Requests for additional information should be addressed to the Naval Oceanographic Office at the address noted above.

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Name and address of Education Institution

Florida Institute of Technology College of Engineering – Marine and Environmental Systems 150 West University Boulevard MELBOURNE Florida 32901 - 6988 United States of America	Teleph : + 1 321 674 8096 Fax: + 1 321 674 7212 E-mail : Web site: http://www.fit.edu.PostStud/Gadm
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Courses

Master of Science, Ocean Engineering
(Specialization in Hydrographic Engineering)

Duration

15 months

Language used

English

Entry requirements

Undergraduate degree in physical science or engineering. Basic land surveying course or surveying experience.

Fees

Graduate tuition is US \$ 1000 per credit hour.

Open to foreign students?

Yes

Availability of scholarships

Research and Teaching Assistantships are competitively available.

Applications should be addressed to:

Graduate Admissions

Florida Institute of Technology

(Address above)

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Name and address of Education Institution

University of New Hampshire Joint Hydrographic center Chase Ocean Engineering Lab 24 Colovos Road DURHAM NH 03824 United States of America	Teleph : +1 603 862 3433 Fax: +1 603 862 0839 e-mail : info@ccom.unh.edu Web site : http://www.ccom.unh.edu
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Courses

University of New Hampshire Graduate Program in Ocean Mapping
 (Recognized by the FIG/IHO International Advisory Board at Category A)

Duration

2 years

Language used

English

Entry requirements

B.S. in Engineering or Physical Sciences and acceptance by the University.
 Refer to <http://www.gradschool.unh.edu>
 for application procedures

Fees

Tuition and fees as published by the University of New Hampshire.

Open to foreign students?

Yes

Refer to <http://www.gradschool.unh.edu> / for international student informationApplications should be addressed to:

UNH Graduate School
 105 Main Street
 DURHAM, New Hampshire 03824
 USA

Other remarks

Applications may be submitted on line or by mail. Applicants should notify the Joint Hydrographic Center (at the address or email at the top of the page) that an application has been submitted to the Graduate School.

Prospective students may apply for the Ocean Mapping Option of either the M.S. of Ocean Engineering or the M.S. in Earth Sciences.

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Name and address of Education Institution

The University of Southern Mississippi The Department of marine Science 1020 Balch Blvd. STENNIS SPACE CENTER MS 39529 United States of America	Teleph : + 1 228 688 3177 Fax: + 1 228 688 1121 e-mail : marine.science@usm.edu Web site : http://www.marine.usm.edu/hydrographic/index.php
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Courses

The University of Southern Mississippi Master of Science in Hydrographic Science
 (Recognized by the FIG/IHO International Advisory Board at Category A)

Duration

Students have the option of completing the degree program in either 1 or 2 years.

Language used

English

Entry requirements

Refer to <http://www.marine.usm.edu/hydrographic/admissions/php>

Fees

Tuition and fees as published by the University of Southern Mississippi.

Refer to: <http://www.marine.usm.edu/costs.php>

Open to foreign students?

Yes. Refer to http://www.usm.edu/internationaledu/ISSS_1/admission.htm

for international student information

Applications should be addressed to:

Refer to <http://www.marine.usm.edu/apply.php> for applications procedures

Other remarks

Those who apply for admission to the degree program should notify the Department of Marine Science (at the address or e-mail at the top of the page) that an application has been submitted to the Office of Graduate Studies.

Foreign military officers or government sponsored civilians that want to attend this course via the International Hydrographic Applied Science Program through the Security Cooperation Program should contact the U.S. Security Assistance Officer or the Military Advisory Group located in the prospective student's country. Information on the International Hydrographic Applied Science Program can be found at :

https://www.oceanography.navy.mil/legacy/web/nipr_2006/ihsap.html

VENEZUELA

VENEZUELA

Name and address of Education Institution

Dirección de Hidrografía y Navegación Comandancia General de la Armada Observatorio Cagical Apartado Postal 6745 CARACAS Venezuela	Teleph : + 58 (2) 483 5982, 481 8666 Fax: + 58 (2) 483 5878 e-mail : dh@truevision.net
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Courses

Course in Hydrography for Naval Officers

Duration

11 months

Language used

Spanish.

Entry requirements

To be a naval officer (Lieutenant with a minimum 1 year seniority and 2 years on-board experience). Officers must be specialized in naval Operations.

Open to foreign students?

No

Applications should be addressed to:

Address above.

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