TRAINING COURSES IN
HYDROGRAPHY AND NAUTICAL
CARTOGRAPHY

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

Published by the International Hydrographic Bureau
MONACO
Please note that the educational institutions identified with an asterisk have not provided updated information on their courses for the 2008 edition. The courses requests for current information should be made directly to the addresses indicated.
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<td>Australia</td>
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<td>Brazil</td>
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<td>137</td>
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<td>United States of America</td>
<td>147</td>
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<tr>
<td>* Venezuela</td>
<td>153</td>
</tr>
</tbody>
</table>
ARGENTINA
ARGENTINA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Servicio de Hidrografía Naval</th>
<th>Teleph: + 5411 43 01 00 61/68</th>
</tr>
</thead>
<tbody>
<tr>
<td>Av. Montes de Oca 2124</td>
<td>Fax: + 5411 43 01 38 83</td>
</tr>
<tr>
<td>1271 BUENOS AIRES</td>
<td>E-mail: <a href="mailto:shn@hidro.gob.ar">shn@hidro.gob.ar</a></td>
</tr>
<tr>
<td>Argentina</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Instituto de Geodesia (FIUBA)</th>
<th>Instituto de Geodesia (FIUBA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Av. Las Heras 2214</td>
<td>Av. Las Heras 2214</td>
</tr>
<tr>
<td>1127 BUENOS AIRES</td>
<td>1127 BUENOS AIRES</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Teleph/Fax : + 5411 45 14 30 14 / 30 15</td>
<td>Teleph/Fax : + 5411 45 14 30 14 / 30 15</td>
</tr>
<tr>
<td>E-mail : <a href="mailto:GEODUBA@fi.uba.ar">GEODUBA@fi.uba.ar</a></td>
<td>E-mail : <a href="mailto:GEODUBA@fi.uba.ar">GEODUBA@fi.uba.ar</a></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Escuela de Ciencias del Mar</th>
<th>Teleph : + 5411 43 01 98 09</th>
</tr>
</thead>
<tbody>
<tr>
<td>Av. Montes de Oca 2124</td>
<td>Fax : + 5411 43 03 22 99</td>
</tr>
<tr>
<td>1271 BUENOS AIRES</td>
<td>E-mail : <a href="mailto:escm@hidro.gov.ar">escm@hidro.gov.ar</a></td>
</tr>
<tr>
<td>Argentina</td>
<td></td>
</tr>
</tbody>
</table>

Courses

1. Bachelor in Cartography

**Duration**
4 years

**Language used**
Spanish

**Entry requirements**
2nd level education diploma or equivalent

**Open to foreign students?**
Subject to annual availability of courses

**Applications should be addressed to:**
Address above

<< << >> >>
AUSTRALIA
AUSTRALIA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>RAN Hydrographic School</th>
<th>Teleph: +61 2 9647 5460</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMAS Penguin</td>
<td>+61 2 9647 5461</td>
</tr>
<tr>
<td>Middle Head Road,</td>
<td>Fax: +61 2 9647 5469</td>
</tr>
<tr>
<td>Balmoral</td>
<td></td>
</tr>
<tr>
<td>NSW 2088, Australia</td>
<td></td>
</tr>
</tbody>
</table>

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

Courses

<table>
<thead>
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<th>1. Advanced Training Course in Hydrography for Officers</th>
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<td>(Recognized by the FIG/IHO Advisory Board at Category A)</td>
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</table>

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 | Teleph : + 56 32 266666 |
| Errazuriz 254 Playa Ancha | Fax: + 56-32-266542 |
| Casilla 324 VALPARAISO Chile | E-mail : SHOA@SHOA.CL |
|  | Internet : http://www.SHOA.CL |

Courses

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

   Duration
   2 years

   Language used
   Spanish

   Entry requirements
   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**

<table>
<thead>
<tr>
<th>Dalian Naval Academy</th>
</tr>
</thead>
<tbody>
<tr>
<td>(500) No 1 Xiaslong Street</td>
</tr>
<tr>
<td>Zhongshan District</td>
</tr>
<tr>
<td>DALIAN</td>
</tr>
<tr>
<td>People’s Republic of China</td>
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</table>

### 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

<table>
<thead>
<tr>
<th>The Hong Kong Polytechnic University</th>
<th>Department of Land Surveying and Geo-Informatics</th>
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<tbody>
<tr>
<td></td>
<td>Hung Hom, Kowloon</td>
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<tr>
<td></td>
<td>HONG KONG SAR</td>
</tr>
<tr>
<td></td>
<td>China</td>
</tr>
<tr>
<td></td>
<td>Teleph: + 852 27 66 59 61</td>
</tr>
<tr>
<td></td>
<td>Fax: + 852 23 30 29 94</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:LSNICK@POLYU.EDU.HK">LSNICK@POLYU.EDU.HK</a></td>
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</tbody>
</table>

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”       | Teleph: +57 5 6694323/122 |
| Dirección Bosque Isla de Manzanillo    | Fax: +57 5 6694124         |
| CARTAGENA DE INDIAS                    | E-mail: hidrografía@enap.edu.co |
| Colombia                               | Web Site: www.escuelanaval.edu.co |

Courses

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

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: hidrografía@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

<table>
<thead>
<tr>
<th>Academic Institution</th>
<th>Oficina Nacional de Hidrografía y Geodesia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academia Naval “Granma”</td>
<td>Av. 47 No. 2829 e/ 28 y 34</td>
</tr>
<tr>
<td>Academia de la FAR “Máximo Gómez”, Micro X, Alamar, Habana del Este, LA HABANA Cuba</td>
<td>Rpto Kohly, Playa, CP 11300 LA HABANA Cuba</td>
</tr>
<tr>
<td></td>
<td>Teleph : +53 (7) 209 0926, 209 0927</td>
</tr>
<tr>
<td></td>
<td>Fax: +53 (7) 203 0967</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:onhg@enet.cu">onhg@enet.cu</a></td>
</tr>
</tbody>
</table>

Courses

Course of Hydrographic and Geodesic Engineers

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 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

<<<<< >>
ECUADOR
ECUADOR

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Instituto Oceanográfico de la Armada (INOCA)</th>
<th>Telephone: +593 2 481300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Av. 25 de Julio Vía. Puerto Marítimo</td>
<td>Fax: +593 2 480537, 485166</td>
</tr>
<tr>
<td>GUAYAQUIL</td>
<td>E-mail: <a href="mailto:inocar@inocar.mil.ec">inocar@inocar.mil.ec</a></td>
</tr>
<tr>
<td>Ecuador</td>
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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 Oceanográfico de la Armada (INOCA)
(See address above).
ESTONIA
ESTONIA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Estonian Maritime Academy</th>
<th>Estonian Maritime Academy</th>
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</thead>
<tbody>
<tr>
<td>Mustakivi tee 25,</td>
<td>Mustakivi tee 25,</td>
</tr>
<tr>
<td>13912 TALLIUS</td>
<td>13912 TALLIUS</td>
</tr>
<tr>
<td>Estonia</td>
<td>Estonia</td>
</tr>
</tbody>
</table>

| Teleph:                   | + 372 604 2099            |
| Fax:                      | eesti.mereakadeemia@emara.ee |
| E-mail:                   | 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

<table>
<thead>
<tr>
<th>Ecole du SHOM</th>
<th>Teleph: +33 2 98 22 11 62</th>
</tr>
</thead>
<tbody>
<tr>
<td>13, rue du Chatellier</td>
<td>Fax: +33 2 98 22 04 96</td>
</tr>
<tr>
<td>CS 92803</td>
<td>E-mail: <a href="mailto:drh-for-d@shom.fr">drh-for-d@shom.fr</a></td>
</tr>
<tr>
<td>29228 BREST CEDEX 2</td>
<td></td>
</tr>
<tr>
<td>France</td>
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</tbody>
</table>

Courses

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

**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 RNCP and accredited at level III code NSF 117b, 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 Baccalauréate. 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.

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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

| BRETAGNE |
| France |

Courses

ENSTA-Bretange 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

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

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

<table>
<thead>
<tr>
<th>HafenCity University Hamburg</th>
<th>Teleph : +49 (0) 40 42827 5393</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Geomatics -</td>
<td>Fax : +49 (0) 40 42827 5359</td>
</tr>
<tr>
<td>Hebebrandstr. 1</td>
<td>Web Page= <a href="http://www.hcu-hamburg.de/geomatik">www.hcu-hamburg.de/geomatik</a></td>
</tr>
<tr>
<td>22297 HAMBURG</td>
<td>Contact : Prof. Dr. Volker Boeder</td>
</tr>
<tr>
<td>Germany</td>
<td>Email : <a href="mailto:volker.boeder@hcu-hamburg.de">volker.boeder@hcu-hamburg.de</a></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hamburg Port HPTI</th>
<th>Teleph : + 49 (0)40 788 780</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training Institute GmbH</td>
<td>Fax : + 49 (0) 40 788 78 178</td>
</tr>
<tr>
<td>Überseezentrum Schuhmacherwerder</td>
<td>E-mail = <a href="mailto:hpti@hpti.de">hpti@hpti.de</a></td>
</tr>
<tr>
<td>D 20457 HAMBURG</td>
<td>Germany</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hellenic Navy Training Command/Palaskas Training Centra</th>
<th>Hellenic Navy Hydrographic Service</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TGN 1040, ATHINAI</td>
</tr>
<tr>
<td></td>
<td>Greece</td>
</tr>
<tr>
<td></td>
<td>Teleph: + 30(1) 6442966, 6442971, 6442986</td>
</tr>
<tr>
<td></td>
<td>Fax: + 30(1) 6517811, 6520224</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:hydrose@ath.forthnet.gr">hydrose@ath.forthnet.gr</a></td>
</tr>
</tbody>
</table>

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
Name and address of Education Institution

<table>
<thead>
<tr>
<th>The Officer-in-Charge</th>
<th>National Hydrographic School</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C/O Headquarters, GOA Area</td>
</tr>
<tr>
<td></td>
<td>Vasco-da-Gama</td>
</tr>
<tr>
<td></td>
<td>GOA – 403 8023</td>
</tr>
<tr>
<td></td>
<td>India</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Duration</th>
<th>4 weeks pre-course (refresher) + 19 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language used</td>
<td>English</td>
</tr>
</tbody>
</table>
| 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

<<<<>>>
4. Surveying Recorder Class I

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

«««»»»
INDONESIA
INDONESIA

Name and address of Education Institution

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

Courses

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

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 |

<<<<>>>
Name and address of Education Institution

<table>
<thead>
<tr>
<th>Institut Teknologi Bandung</th>
<th>Teleph: + 62 22 84827 – 84252/58 Ext.237</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geodesy Department</td>
<td></td>
</tr>
<tr>
<td>JL Ganesha 10</td>
<td></td>
</tr>
<tr>
<td>BANDUNG 40132</td>
<td></td>
</tr>
<tr>
<td>Indonesia</td>
<td></td>
</tr>
</tbody>
</table>

| Fax: + 62 22 438 338       |                                           |

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

<table>
<thead>
<tr>
<th>Istituto Idrografico della Marina</th>
<th>Telph: + 39 010 24431</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passo Osservatorio</td>
<td>Fax: + 39 010 262400</td>
</tr>
<tr>
<td>16134 GENOVA Italy</td>
<td>E-mail: <a href="mailto:jim@assicomitalia.it">jim@assicomitalia.it</a></td>
</tr>
</tbody>
</table>

Courses

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

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 attaches 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

<table>
<thead>
<tr>
<th>Duration</th>
<th>4 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language used</td>
<td>Italian</td>
</tr>
<tr>
<td>Entry requirements</td>
<td>The course is addressed to Italian Navy N.C.O. Foreign students with good knowledge of Italian language and equivalent qualifications are admitted.</td>
</tr>
<tr>
<td>Fees</td>
<td>In compliance with bilateral agreements.</td>
</tr>
<tr>
<td>Open to foreign students?</td>
<td>Yes.</td>
</tr>
<tr>
<td>Applications should be addressed to:</td>
<td>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.</td>
</tr>
</tbody>
</table>
JAPAN
JAPAN

Name and address of Education Institution

<table>
<thead>
<tr>
<th>No.</th>
<th>School Name</th>
<th>Address</th>
<th>Telephone</th>
<th>Fax Number</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Hydrographic and Oceanographic</td>
<td>3-1, Tsukiji 5-chome, Chuo-ku, TOKYO 104-0045</td>
<td>+81 3 3541 3685</td>
<td>+81 3 3248 1250</td>
<td><a href="mailto:ico@hd.go.jp">ico@hd.go.jp</a></td>
</tr>
<tr>
<td></td>
<td>Department. Japan Coast Guard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Japan Coast Guard School</td>
<td>2001 Aza-Nagahama, Maizurushi, KYOTO Pref. 625-8503</td>
<td>+81 773 62 3520</td>
<td></td>
<td><a href="mailto:gakko-somu@kaiko.mlit.go.jp">gakko-somu@kaiko.mlit.go.jp</a></td>
</tr>
<tr>
<td>3.</td>
<td>Japan Coast Guard Academy</td>
<td>5-1, Wakaba-cho, KURE-SHI 737-8512</td>
<td>+81 823 21 4961</td>
<td>+81 823 21 4961</td>
<td><a href="mailto:hodai-somu@kaiko.mlit.go.jp">hodai-somu@kaiko.mlit.go.jp</a></td>
</tr>
</tbody>
</table>

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.

2. Ocean Science Curriculum
(Recognized by the FIG/IHO International Advisory Board at Category B)

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.

≪≪≪≫≫
3. **Advanced Course in Hydrography**  
(Recognized by the FIG/IHO International Advisory Board at Category A)

<table>
<thead>
<tr>
<th>Duration</th>
<th>1 year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language used</td>
<td>Japanese</td>
</tr>
<tr>
<td>Entry requirements</td>
<td></td>
</tr>
<tr>
<td>a) To have successfully passed the Ocean Science Curriculum of the Maritime Safety School</td>
<td></td>
</tr>
<tr>
<td>b) To have the support or recommendation of a superior.</td>
<td></td>
</tr>
<tr>
<td>c) To pass a written examination, character test and test of physical strength.</td>
<td></td>
</tr>
</tbody>
</table>

**Open to foreign students?**  
NO

**Applications should be addressed to:**  
Address above.

**Other remarks**  
Gratis.

≪≪≪≫≫
MALAYSIA
MALAYSIA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Centre for Hydrographic Studies</th>
<th>Fax: + (607) 5566163</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Geoinformation Science and Engineering</td>
<td>E-mail: <a href="mailto:chs@fkg.utm.my">chs@fkg.utm.my</a></td>
</tr>
<tr>
<td>Universiti Teknologi Malaysia</td>
<td></td>
</tr>
<tr>
<td>Locked Bag 791</td>
<td></td>
</tr>
<tr>
<td>80990 JOHOR BAHRU</td>
<td></td>
</tr>
<tr>
<td>JOHOR DARUL TAZIM</td>
<td></td>
</tr>
<tr>
<td>Malaysia</td>
<td></td>
</tr>
</tbody>
</table>

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.
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.
MEXICO
MEXICO

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Contralmirante CG DEM.</th>
<th>Teleph: + (52) 55 56246500 ext. 7239</th>
</tr>
</thead>
<tbody>
<tr>
<td>José Jesús OCAÑA GARCIA</td>
<td>Fax: + (52) 55 5679 80 45</td>
</tr>
<tr>
<td>Eje 2 Ote. Tramo H. Esc. Naval Militar</td>
<td>E-mail: <a href="mailto:asunext.hidro@gmail.com">asunext.hidro@gmail.com</a></td>
</tr>
<tr>
<td>Delegación Coyoacán.</td>
<td></td>
</tr>
<tr>
<td>C.P. 04830</td>
<td></td>
</tr>
<tr>
<td>CIUDAD DE MEXICO</td>
<td></td>
</tr>
</tbody>
</table>

Courses

1. Hydrography and Cartography

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
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
NETHERLANDS
NETHERLANDS

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Technical University Delft Netherlands</th>
<th>Teleph : + 31 15 278 9111</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 5</td>
<td>Fax:  + 31 15 278 1855</td>
</tr>
<tr>
<td>2600 AA DELFT</td>
<td>E-mail : <a href="mailto:info@tudelft.nl">info@tudelft.nl</a></td>
</tr>
<tr>
<td>The Netherlands</td>
<td>Website: <a href="http://www.tudelft.nl">www.tudelft.nl</a></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>English language test</th>
<th>Minimum level</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL Interned-based Test</td>
<td>80</td>
</tr>
<tr>
<td>IELTS</td>
<td>6.0</td>
</tr>
<tr>
<td>Cambridge</td>
<td>CPE/CAR</td>
</tr>
</tbody>
</table>

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  

<<<<< >>>>
Name and address of Education Institution

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

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.

<table>
<thead>
<tr>
<th>English language test</th>
<th>Minimum level</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL Paper-based Test (PBT)</td>
<td>550</td>
</tr>
<tr>
<td>TOEFL Internet-based test</td>
<td>79-80</td>
</tr>
<tr>
<td>British Council/IELTS</td>
<td>6.0</td>
</tr>
<tr>
<td>Cambridge</td>
<td>CPE/CAE</td>
</tr>
</tbody>
</table>

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.
Name and address of Education Institution

<table>
<thead>
<tr>
<th>Skilltrade BV &amp; STC BV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skilltrade BV</strong></td>
</tr>
<tr>
<td>PO Box 111</td>
</tr>
<tr>
<td>2250AC VOORSCHOTEN</td>
</tr>
<tr>
<td>The Netherlands</td>
</tr>
<tr>
<td>Teleph: +31 71 561 13 65</td>
</tr>
<tr>
<td>Fax: +31 71 561 15 03</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:MjT@skilltrade.nl">MjT@skilltrade.nl</a></td>
</tr>
<tr>
<td>Web site: <a href="http://www.skilltrade.nl">www.skilltrade.nl</a></td>
</tr>
<tr>
<td><strong>STC BV</strong></td>
</tr>
<tr>
<td>LLoydstraat 300</td>
</tr>
<tr>
<td>3024EA ROTTERDAM</td>
</tr>
<tr>
<td>The Netherlands</td>
</tr>
<tr>
<td>Teleph: +31 10 448 60 00</td>
</tr>
<tr>
<td>Fax:</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:wiegman@stc-r.nl">wiegman@stc-r.nl</a></td>
</tr>
<tr>
<td>Web site: <a href="http://www.stc-bv.nl">www.stc-bv.nl</a></td>
</tr>
</tbody>
</table>

Courses

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

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 of 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 companies.

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.
**Name and address of Education Institution**

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

**Courses**

<table>
<thead>
<tr>
<th>Hydrographic Surveyor</th>
</tr>
</thead>
</table>

**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.
NEW ZEALAND
NEW ZEALAND

Name and address of Education Institution

<table>
<thead>
<tr>
<th>University of Otago</th>
<th>Teleph: + 64 (03) 379 1100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Surveying</td>
<td>Fax: + 64 (03) 479 7586</td>
</tr>
<tr>
<td>P.O. Box 56</td>
<td>e-mails: <a href="mailto:surveying@otago.ac.nz">surveying@otago.ac.nz</a></td>
</tr>
<tr>
<td>DUNEDIN</td>
<td><a href="mailto:john@albers.otago.ac.nz">john@albers.otago.ac.nz</a></td>
</tr>
<tr>
<td>New Zealand</td>
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</tbody>
</table>

Courses

<table>
<thead>
<tr>
<th>Bachelor of Surveying, Postgraduate Diploma, master of Science, PhD</th>
</tr>
</thead>
</table>

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

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Name and address of Education Institution

| Royal New Zealand Navy Hydrographic School | Teleph: + 64 (09) 44 55 774 |
| HNZS Tamaki | Fax: + 64 (09) 44 55 741 |
| DEVONPORT, AUCKLAND | |
| New Zealand | |
| New Zealand | |

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 HNZS 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)

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

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PAKISTAN
PAKISTAN

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Hydrographic Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naval Headquarters</td>
</tr>
<tr>
<td>11, Liaquat Barracks</td>
</tr>
<tr>
<td>KARACHI – 75530</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Teleph: + 92 21 48506151-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax: + 92 21 9201623</td>
</tr>
<tr>
<td>e-mails: <a href="mailto:hydropk@bol.edu.pk">hydropk@bol.edu.pk</a></td>
</tr>
<tr>
<td><a href="mailto:hydropk@paknavy.gov.pk">hydropk@paknavy.gov.pk</a></td>
</tr>
</tbody>
</table>

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
PERU
PERU

Name and address of Education Institution

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

Courses

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

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)
POLAND
POLAND

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Naval Academy</th>
<th>Szef Biura Hydrograficznego</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ul. Ømidowicza 71</td>
<td>Maynarki Wojennej</td>
</tr>
<tr>
<td>81-810 GDYNIA</td>
<td>81-912 GDYNIA 12</td>
</tr>
<tr>
<td>Poland</td>
<td>Poland</td>
</tr>
<tr>
<td></td>
<td>Teleph: + 48 586266482</td>
</tr>
<tr>
<td></td>
<td>Fax: + 48 586263680</td>
</tr>
</tbody>
</table>

Courses

1. Hydrographic Course, Class B

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                  | Szef Biura Hydrograficznego                       |
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ul. Ømidowicza 71</td>
<td>Maynarki Wojennej</td>
</tr>
<tr>
<td>81-819 GDYNIA</td>
<td>81-912 GDYNIA 12</td>
</tr>
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<td>Poland</td>
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<tr>
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<td>Teleph: 48 586266482</td>
</tr>
<tr>
<td></td>
<td>Fax: 48 586263680</td>
</tr>
</tbody>
</table>

and
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. Emidowicza 71
81-819 GDYNIA
Poland

Szeif Biura Hydrograficznego
Maynarki Wojennej
81-912 GDYNIA 12
Poland

Teleph : 48 586266482
Fax: 48 586263680
PORTUGAL
PORTUGAL

Name and address of Education Institution

<table>
<thead>
<tr>
<th>School of Hydrography and Oceanography</th>
<th>Teleph: + 351 210 943 285</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instituto Hidrográfico</td>
<td>Fax: + 351 210 943 299</td>
</tr>
<tr>
<td>Portuguese Navy</td>
<td>e-mail: <a href="mailto:escolahidrografica@hidrografico.pt">escolahidrografica@hidrografico.pt</a></td>
</tr>
<tr>
<td>Ruas das Trinas No. 49</td>
<td></td>
</tr>
<tr>
<td>1249-093 LISBOA</td>
<td></td>
</tr>
<tr>
<td>Portugal</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Department of Civil Engineering and Surveying</th>
<th>Teleph: +27 (021) 460 3045/6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cape Technikon</td>
<td>Fax: +27 (021) 460 3710</td>
</tr>
<tr>
<td>P.O. Box 652</td>
<td>e-mail: <a href="mailto:postmaster@ctech.ac.za">postmaster@ctech.ac.za</a></td>
</tr>
<tr>
<td>CAPE TOWN 8000</td>
<td></td>
</tr>
<tr>
<td>Republic of South Africa</td>
<td></td>
</tr>
</tbody>
</table>

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.
Name and address of Education Institution

| The Hydrographer SA Navy Hydrographic Office | Teleph: + 27 (021) 787 2408 |
| Private Bag XI TOKAI 7966 Republic of South Africa | Fax: + 27 (021) 787 2228, 787 2233 |
| e-mail: hydrosan@iafrica.com |

Courses

<table>
<thead>
<tr>
<th>Survey Recorder Part 1, Part 2, Part 3 and Basic Survey for Officers</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Duration</strong></td>
</tr>
<tr>
<td><strong>Survey Recorder Part 2</strong></td>
</tr>
<tr>
<td><strong>Survey Recorder Part 3</strong></td>
</tr>
<tr>
<td><strong>Basic Survey for Officers</strong></td>
</tr>
</tbody>
</table>

**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**

**Open to foreign students?**
No

**Applications should be addressed to:**
Director Fleet Human Resources (DFHR) C/O above address
RUSSIA
RUSSIA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>Fax</th>
<th>e-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiral Makarov</td>
<td>Maritime Academy</td>
<td>+ 812 322 78 07</td>
<td><a href="mailto:gmamak@mail.wplus.net">gmamak@mail.wplus.net</a></td>
</tr>
<tr>
<td>ST PETERSBURG</td>
<td>Russia</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Courses

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

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.

<< << » » >>
Name and address of Education Institution

<table>
<thead>
<tr>
<th>St. Petersburg's Naval Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 Lt. Schmidt Embankment</td>
</tr>
<tr>
<td>ST PETERSBURG 199162</td>
</tr>
<tr>
<td>Russia</td>
</tr>
</tbody>
</table>

Fax: +812 323 77 18

Courses

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

**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

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Escuela de Hidrografía</th>
<th>Teleph : +34 956 599 398</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instituto Hidrográfico de la Marina</td>
<td>Fax: +34 956 599 398</td>
</tr>
<tr>
<td>Plaza San severiano, 3</td>
<td>e-mail: <a href="mailto:ihmep@fn.mde.es">ihmep@fn.mde.es</a></td>
</tr>
<tr>
<td>11007 CADIZ</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td></td>
</tr>
</tbody>
</table>

Courses

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

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.
Course in Hydrography “A” Level
(Recognized by the FIG/IHO/ICA International Advisory Board)

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

<table>
<thead>
<tr>
<th>UK Hydrographic Office</th>
<th>Teleph : + 44 (0) 1823 337900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admiralty Way</td>
<td>Fax: + 44 (0) 1823 284077</td>
</tr>
<tr>
<td>TAUNTON</td>
<td>e-mail: <a href="mailto:peter.westcott@ukho.gov.uk">peter.westcott@ukho.gov.uk</a></td>
</tr>
<tr>
<td>Somerset TA1 2DN</td>
<td>Web Site : <a href="http://www.ukho.gov.uk">http://www.ukho.gov.uk</a></td>
</tr>
<tr>
<td>United Kingdom</td>
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</tbody>
</table>

Courses

1. **Hydrographic Data Processing and Marine Cartography – 3 Modules**  
   (Recognised by FIG/IHO/ICA Advisory 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.

2. Introduction to Hydrographic Data Processing and Marine Cartography – 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

<<<<>>>
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

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.
Name and address of Educational Institution

<table>
<thead>
<tr>
<th>Name and address of Educational Institution</th>
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<tbody>
<tr>
<td>FOST HM</td>
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<tr>
<td>Upper Battery Road</td>
</tr>
<tr>
<td>HMS DRAKE</td>
</tr>
<tr>
<td>Plymouth</td>
</tr>
<tr>
<td>PL2 2BG</td>
</tr>
<tr>
<td>United Kingdom</td>
</tr>
<tr>
<td>Telephone: + 44 (0) 1752 557610</td>
</tr>
<tr>
<td>Fax: + 44 (0) 1752 555980</td>
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</table>

Courses

1. Leading Seaman (HM) (Hydrographic)

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

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

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

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

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

4. HM Advanced Survey Course

Recognised by the FIG/IHO International Advisory Board at Cat A

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
UNITED STATES OF AMERICA
UNITED STATES OF AMERICA

Name and address of Education Institution

<table>
<thead>
<tr>
<th>Naval Oceanographic Office</th>
<th>Teleph : +1 (228) 688 5705</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attn : O1T</td>
<td>Fax: +1 (228) 688 5287</td>
</tr>
<tr>
<td>1002 Balch Blvd.</td>
<td>E-mail: <a href="mailto:tony.d.taylor@navy.mil">tony.d.taylor@navy.mil</a></td>
</tr>
<tr>
<td>STENNIS SPACE CENTER</td>
<td>Web Site: <a href="http://www.oceanography.navy.mil/legacy/web/nipr-2006/ihmep.html">http://www.oceanography.navy.mil/legacy/web/nipr-2006/ihmep.html</a></td>
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<tr>
<td>MS 39522-5001</td>
<td></td>
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<td>United States of America</td>
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</table>

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.
### Name and address of Education Institution

<table>
<thead>
<tr>
<th>Florida Institute of Technology</th>
<th>Teleph : + 1 321 674 8096</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Engineering – Marine and Environmental Systems</td>
<td>Fax: + 1 321 674 7212</td>
</tr>
<tr>
<td>150 West University Boulevard</td>
<td>E-mail :</td>
</tr>
<tr>
<td>MELBOURNE</td>
<td>Wab site:</td>
</tr>
<tr>
<td>United States of America</td>
<td></td>
</tr>
</tbody>
</table>

### 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)

<<<<< >>
Name and address of Education Institution

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

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](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](http://www.gradschool.unh.edu) / for international student information

**Applications 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.
Name and address of Education Institution

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

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](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](http://www.marine.usm.edu/costs.php)

Open to foreign students?
Yes. Refer to [http://www.usm.edu/internationaledu/ISSS_1/admission.htm](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](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:
VENEZUELA
VENEZUELA

**Name and address of Education Institution**

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

**Courses**

<table>
<thead>
<tr>
<th>Course in Hydrography for Naval Officers</th>
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</thead>
</table>

**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.