

2011/2012

IIMS Diploma in Marine Surveying

**with endorsements in
Yacht & Small Craft, Engineering, Commercial and Cargo**

**STUDY
ONLINE
AT HOME
AND AT
SEA**



**THE ONLY
APPROVED
CAREER PATH
TO BECOMING
A MARINE
SURVEYOR**

**IIMS
STUDENT
MEMBERSHIP
INCLUDED**

**ACCESS TO
INSTITUTE
PROFESSIONAL
INDEMNITY
SCHEME**



Welcome

The International Institute of Marine Surveying as the professional body for marine surveying, recognises the need to promote the profession and the professionals within it to the highest level.

The Diploma programme allows you to decide when and how long you want to study.

If you travel, you can take the units with you to continue studying and make good use of travelling time.

The benefits of studying with the Institute is that you become a Student Member of the Institute whilst training and you can therefore participate in all Institute activities, including one day courses, seminars and conferences.

One of the most beneficial factors of distance learning study is that you apply your learning immediately. As the course progresses you can apply the knowledge, skills and expertise gained to your work.

The Institute is also grateful to our industry partners and thank them for the great support and encouragement that they have given us throughout the production of the Diplomas. The quality and diversity of our partners reflects the wide appealing nature of the syllabus and how pertinent it is to this growing and exciting industry. The IIMS is an independent, non-political organisation that aims to advance the reputation of international marine surveying by:

- Promoting professionalism & the advancement of knowledge in the profession of marine surveying
- Maintaining high professional standards decreed in a Code of Conduct
- Recognition from Government Organisations
- Putting into practice the high standards of the Institute
- Conferring professional status on those who contribute to and encourage safety
- Bringing together experts
- Organising and evaluating the training of future marine surveyors

IIMS, Murrills House, 48 East Street,
Portchester, Hampshire PO16 9XS, UK
Tel: +44 (0)23 9238 5223
Fax: +44 (0)23 9238 5224
Email: education@iims.org.uk
www.iims.org.uk

How to Apply?

Apply Today by following these 3 easy steps

3 Easy Steps to Choosing your Marine Surveying Course

Step 1

Discussion with the course organiser to assess suitability and previous experience prior to undertaking course

The diploma consists of four core units and four specialist units.

The core units are compulsory and are to be studied by all students. You have a choice of specialisms.

Step 2

Choose the pathway you would like to study:
Cargo, Engineering,
Commercial Surveying OR
Yacht & Small Craft

First decide which pathway you are going to study; Cargo, Engineering, Commercial Surveying, or Yacht & Small Craft. Review the specialist units in that section and choose the units that you wish to study.

Step 3

Enter this information onto the application form provided and return to IIMS

Indicate your choices on the application form

Please post your application to:
IIMS

Murrills House
48 East Street
Portchester
Hampshire
PO16 9XS
education@iims.org.uk
+44(0) 239 238 5223

Core Surveying Units

Compulsory Core Units

The core units are compulsory and are to be studied by all candidates.

(1) CORE UNIT 1

An Introduction to Marine Surveying Profession

- Marine Regulation & Safety
- The Purchase of a Vessel
- The Law and the Marine Industry
- Health and Safety of the Marine Surveyor
- Survey Organizations
- The Marine Surveyor in Practice
- Business Management
- Marketing your Business
- Being prepared - SWOT Analysis
- Finance

(2) CORE UNIT 2

Materials and Corrosion

- Force, Stress and Strain
- Materials
- Structural Configuration
- Galvanic and stray current corrosion.
- Cathodic Protection
- Breakdown of Materials

(3) CORE UNIT 3

Naval Architecture

- Shape and Size Definitions
- Tonnage
- The Calculation of Areas and Volumes
- Moments and Centres
- Stability
- Resistance and Propulsion

(4) CORE UNIT 4

Introduction to Report Writing for Marine Surveyors

- Effective Writing and Reporting
- Information Technology in Marine Surveying
- Structure of Reports

Pathways to Endorsements

CARGO GROUP (A)	ENGINEERING GROUP (B)	COMMERCIAL GROUP (C)	YACHT & SMALL CRAFT GROUP (D)
Draft Surveying	Surveying Large Vessel Main Engines	Marine Incident Investigation	Inspecting Small Craft Engines
Surveying Bulk Cargos	Surveying Large Vessel Aux. Systems	Statutory Surveys	Surveying Small Craft Systems
Surveying Chemical Cargoes	Electrical & Electronic Engineering Systems	International Safety Management Code	Surveying FRP Craft
Surveying Petroleum Products	Marine Incident Investigation	Marine Coatings	Surveying Steel and Alloy Small Craft
Carriage of Refrigerated Cargoes	Statutory Surveys	Warranty Surveys	Surveying Recreational Inland waterways Craft
Surveying Containers			
Surveying Bulk Veg. Animal Oils & Fats			
Heavy Lift & Project Cargoes			
Transport of LNG & LPG			
Surveying General Cargoes			

(Group A) Cargo Surveying Endorsement Units

Students must study 4 Endorsement units

(5) SPECIALIST UNIT 5

Draught Surveying

- Marine Regulation & Safety
- Introduction to Ship Construction
- Understanding Basic Ship Stability
- The Theory of Draught Surveying
- The Practical Draught Survey

(6) SPECIALIST UNIT 6

Surveying Dry Bulk Cargoes

- The Nature of the Cargo and their Specific Hazards
- Safety and Safe Practice
- Ship Types
- Cargo Problems
- Quantity Calculations
- Sampling
- Documentation
- BIMCO, sGAFTA and the Role of the Trade Associations

(7) SPECIALIST UNIT 7

Surveying Chemical Cargoes

- The Nature of the Cargo and Types of Hazards
- Safety and Safe Practices
- Quantity Calculations
- Cargo Problems
- Sampling Procedures
- Documentation
- CDI Inspections and the CDI System
- Vetting

(8) SPECIALIST UNIT 8

Petroleum Products Crude and Refined Oils

- The Nature of the Cargo and Types of Hazard
- Safety and Safe Practices
- Ship Types
- Cargo Problems
- Quality and Quantity
- Cargo Calculations
- Sampling
- Documentation
- SIRE Inspections and SIRE Systems

(9) SPECIALIST UNIT 9

The Carriage of Refrigerated Cargoes

- Ship or Container
- Ship Features and Problems
- Container Types and Problems
- Particular Trades and their Problems
- Record Keeping and Troubleshooting

(10) SPECIALIST UNIT 10

Surveying Containers and Cargoes in Containers

- Types of Containers
- Types of Container Ships
- The East/West Trade and the North /South trade
- Container Construction and Securing
- Container Stuffing and Cargo Securing
- Problem Areas – Ship, Cargo and Container

(11) SPECIALIST UNIT 11

Surveying Bulk Vegetable/ Animal Oils & Fat Cargoes

- The Nature of the Cargo and Types of Hazards
- Safety and Safe Practices
- Ship Types
- Quantity Calculations
- Cargo Problems
- Sampling
- Documentation

(12) SPECIALIST UNIT 12

Heavy Lift and Project Cargoes

- What is a Heavy Lift or Project Cargo
- Ship Types – Heavy Lift, Semi-Submersible
- Load Out and Preparation Surveys
- Loading
- Securing
- Voyage Planning
- Reports and Reporting
- Project Example

(13) SPECIALIST UNIT 13

Transportation of LNG & LPG Cargoes

- The Nature of Gas Cargoes and the Background to Cryogenics
- Safety and Safe Practices
- Ship Types
- Cargo Problems
- Quantity Calculations

(14) SPECIALIST UNIT 14

Surveying General Cargo

- What is a General Cargo Ship?
- Types of Ship and Areas of Trade
- Loading and Securing
- Stowage and Separation
- Ventilation
- Hatch Opening and Arrival Surveys
- Discharge and Damage Surveys
- The Role of Mates Receipts and the Bill of Lading in Practical Terms

(Group B) Engineering Surveying Endorsement Units

Students must study 4 Endorsement units

(15) SPECIALIST UNIT 15

Surveying Large Vessel

Main Engines

- Diesel Engines
- Steam Machinery
- Propellers
- Stern Tubes and Bearings
- Gearboxes

(16) SPECIALIST UNIT 16

Surveying Large Vessel

Auxiliary Systems

- Windlasses
- Winches
- Bow Thrusters
- Cranes
- Passarelle
- Side Gangway
- Deck Machinery
- Evaporators
- Thermal Boilers

(17) SPECIALIST UNIT 17

Electrical and Electronic Engineering Surveying

- Distribution Systems
- Voltage and Frequency
- Cables, Circuit Breakers and Associated Equipment
- Switch Boards and Earth Testing
- Batteries and Chargers
- Diesel Electric Drives
- Principle of Operation of the Electronic Cell
- Typical Electronic Circuits
- Advantages of Electronics
- Typical Control Circuits
- Alarm Systems and Engine Controls
- Lightning Protection Systems

(18) SPECIALIST UNIT 18

Marine Incident Investigation

- Introduction to Incident
- Investigation
- The Nature of Incidents
- Gathering Evidence
- Analyzing the Evidence
- Case Studies
- Interviewing Techniques
- Memory
- Cognitive Interviewing

(19) SPECIALIST UNIT 19

Statutory Surveys

- History of Ship Classification Societies
- IACS its History Organisation and Activities
- General Rules and Definitions
- The Role of a Society
- Ship Registries
- Classification Related Activities
- Interaction with Other Organisations
- Class Surveys
- Hull Construction and Equipment
- Statutory Certification
- Quality System Certification
- Audit and Registration of SMS Systems
- Technical Services
- Emergency Technical Assistance
- Advanced Technology
- Class Publications
- Research

(Group C) Commercial Surveying Endorsement Units

Students must study 4 Endorsement units

(18) SPECIALIST UNIT 18

Marine Incident Investigation

- Introduction to Incident
- Investigation
- The Nature of Incidents
- Gathering Evidence
- Analyzing the Evidence
- Case Studies
- Interviewing Techniques
- Memory
- Cognitive Interviewing

(19) SPECIALIST UNIT 19

Statutory Surveys

- History of Ship Classification Societies
- IACS its History Organisation and Activities
- General Rules and Definitions
- The Role of a Society
- Ship Registries
- Classification Related Activities
- Interaction with Other Organisations
- Class Surveys
- Hull Construction and Equipment
- Statutory Certification
- Quality System Certification
- Audit and Registration of SMS Systems
- Technical Services
- Emergency Technical Assistance
- Advanced Technology
- Class Publications
- Research

(20) SPECIALIST UNIT 20

The International Safety Management Code

- Study of the ISM Code
- Initial Assessment, Action Plans for Creating and Implementing a SMS
- Operation of the SMS Ashore
- Operation of the SMS Onboard
- ISM Training of Personnel
- Internal Assessment and Presentation of Certification
- Key Performance Indicators
- Continuous Compliance Assessment
- How to Present Your System to the Possible Customer (Starting Company)

(21) SPECIALIST UNIT 21

Marine Coatings

- Prevention
- Methods of Corrosion Control
- Identifying Corrosion Defects
- Survey Equipment and Methods
- Case Studies

(22) SPECIALIST UNIT 22

Warranty Surveys

- Warranty Insurance
- Warranty Clauses - Their Meaning
- Warranty Companies and their Role
- Appointing a Warranty Surveyor
- Approval Certification
- A Review of Types of Warranty Surveys
- Practical Aspects of Warranty Surveys
- Tugs and Towing Equipment
- Mooring Operations

(Group D) Yacht & Small Craft Endorsement Units

For Yacht & Small Craft endorsement, the student is required to study Unit 23 and Unit 24 and choose two additional units from the remaining three. Students must study 4 units in total.

(23) SPECIALIST UNIT 23

Inspecting Small Craft Engines

- Discussing Operational Faults on all Engines.
- Holding Down Bolts and Engine Beds.
- Petrol inboard engines.
- Petrol outboard engines.
- Drive systems, including conventional shaft, sterndrive etc
- Looking at Crankcase Ventilation and Exhaust Systems.

(24) SPECIALIST UNIT 24

Surveying Small Craft Systems and Mechanical Installations

A detailed review of:

- Water
- Sewage
- LPG
- Electrical and Fuel Systems
- Differing Standards
- Surveying and Repairs

(25) SPECIALIST UNIT 25

Surveying FRP Craft

- Thermoplastic and Thermoset Resins
- Reinforcements and Core Materials
- Building Techniques, Moulding Techniques
- Problems with Internal Structure
- Surveying the Hull and Structure
- Gelcoat Blisters (Osmosis)
- Damage and Repairs.

(26) SPECIALIST UNIT 26

Surveying Steel and Aluminum Alloy Small craft

- Review of Materials and their Physical and Chemical Properties
- Welding Yacht Building in Steel and Aluminium
- Steel and Aluminium Alloy Construction Methods
- Paint Coatings and Protection Systems
- Ultrasound Thickness Gauge
- Ferrocement Vessels
- Damage and Repairs

(27) SPECIALIST UNIT 27

Surveying Recreational Inland Waterway Craft

- Covering the Scope of a Typical Narrow Boat Pre-purchase Survey
- The Typical Narrow Boat Hulls and System Installation
- Testing Techniques including Ultrasound Thickness Gauges
- Types of Defect that may be Found
- Hull Repair Methods
- Applicable Standards and Regulations



Marine Surveying By Distance Learning

Application Form

TERMS & CONDITIONS

How to Enrol on the Course Complete the application form and send to:

The Education Team, IIMS, Murrills House, 48 East Street, Portchester, Hampshire, PO16 9XS or scan and email to: education@iims.org.uk or contact us on Tel:+44(0) 239 238 5223

Course Fees

When your application is approved, you will be contacted and given details on how to pay for your course.

The fees for the IIMS Diploma is £2500.00 (this covers the core units, specialist units, and all costs and the issuing of a Diploma). This course is exempt for Value Added Tax (VAT).

Not Included in the Fees Any travel, food or hotel accommodation required.

Discounts Available for group registrations. Please contact The Education Team, IIMS, Murrills House, 48 East Street, Portchester, Hampshire, PO16 9XS or scan and email to: education@iims.org.uk or contact us on Tel:+44(0) 239 238 5223

Payment Methods

Cheque All payments made payable to IIMS Ltd.

Via the student website.
Or transfer to: IIMS Account at
Bank Transfer Lloyds TSB Bank,
20-24 High Street, Gosport,
Hampshire, PO12 1DE
Account Number 02161333
Sort code: 30-93-56
BIC Number: LOYDGB21292

Credit Card payments to Include number, card type, issue, expiry dates and address of the card holder and the 3 digit security code.

Payment Plan For details of payment plans, applicants should contact IIMS Education Team

Cancellation Policy

Terms to be received in writing before the start date of the course and will receive a full refund less an administrative charge of £250. Cancellation after the start of the course will be at the discretion of the IIMS Education and Training Team.

Confidentiality

Students are advised that assignments are processed as confidential and will not be shared with any third party outside of the IIMS.

Course Content

The content of the course is subject to change at the discretion of the Course Programme Manager.

Education & Experience

Please attach a copy of your CV to this application.

Payment

When your application is approved, you will be contacted by email and details will be provided on the methods of payment. Do not send any money with your application.

There are three ways to pay:

Via the Student Website Account. Students are issued with a username and password and an account is set up on the IIMS Website. Students log on and make a payment using the PayPal system.

Via a cheque. Cheques should be made payable to: IIMS Ltd (cheques must be in sterling and drawn on a British bank).

Credit Card: Payment may be made via a credit card. Full details on this system will be sent once your application is approved.

APPLICATION FOR ENROLMENT

Personal Details

I Would like to take the following course:

IIMS DIPLOMA IN MARINE SURVEYING

Endorsements in

CARGO

ENGINEERING

COMMERCIAL

YACHT & SMALL CRAFT

Contact Details

Surname: Forename: Title:

Sex: M/F Nationality: Country of Permanent Residence:

Present Company/Employer: Your Position:

Work Tel: Work Email:

Contact Address:

Contact Phone No:

Contact Mobile:

Contact Email:

My choice of Endorsement units are...

I would like to study the Cargo Surveying Pathway. My endorsement unit choice are as follows (please tick four of ten units)

5 6 7 8 9
 10 11 12 13 14

I would like to study the ENGINEERING Pathway. My endorsement unit choice is as follows (please tick four of five units)

15 16 17 18 19

I would like to study the COMMERCIAL SURVEYING Pathway. My endorsement unit choice are as follows (please tick four of five units)

18 19 20 21 22

I would like to study the YACHT AND SMALL CRAFT SURVEYING pathway. My endorsement unit choice are as follows (please tick four of five units)

23 24 25 26 27

Finance - fees due with application

I am taking the Diploma option (includes specialist units selected above)

£2500.00

I would like to receive my units in hard copy

£500.00

(This course is VAT exempt)

Total Fees: £



Form to be returned to:

IIMS, Murrills House, 48 East Street, Portchester, Hampshire PO16 9XS, UK

Tel: +44 (0)23 9238 5223 Fax: +44 (0)23 9238 5224

Email: education@iims.org.uk

APPLICATION FOR ENROLMENT

Education/Experience

Please attach a copy of your CV

Payment

- Cheque - I enclose a cheque for £..... made payable to IIMS
(Cheques must be in pounds sterling and drawn on a British bank)
- UK Bank Transfer - I am making a payment free of all charges directly to the IIMS bank account at:
Bank Transfer Lloyds TSB Bank, 20-24 High Street, Gosport, Hampshire, PO12 IDE
Account No: 02161333 Sort Code: 30-93-56
- EU/Non EU Bank Transfer - I am making a payment which includes a £12 bank charge directly to the IIMS bank account at:
BIC Number: LOYDGB21292
Account No: 02161333 Sort Code: 30-93-56
Account Name: IIMS Bank Name: Bank Transfer Lloyds TSB Bank
Bank Address: 20-24 High Street, Gosport, Hampshire, PO12 IDE
- Credit Card - Please charge my credit card; VISA MASTERCARD
Card Number: Expiry Date:
Holders Name: Start Date:.....
Billing Address*: 3 Digit Security Code:.....
*If different to application

Invoice

- Please send me/my company an invoice (Delete as appropriate)

How did you hear about the course?

- Publication (please state)
.....
 Website link (please state)
 Word of mouth
- InSTITUTE (please state)
 IIMS
 RINA
 The Marine Society
 Other
.....
- Event (please state)
.....
 Other
.....

Declaration

I confirm that the statements made by me on this form are correct and that I will be bound by the terms & conditions as stated:

Signed:..... Date:.....

Data Protection: We would like to keep you informed of IIMS Courses and services. However, if you specifically do not wish your details to be used, please tick here

2011/12



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