



# FUGRO ACADEMY

## APPLIED HYDROGRAPHIC SURVEY PROGRAMME

Whether you are aiming to be a hydrographic surveyor or already work in hydrography, our internationally recognised International Hydrographic Organization (IHO) Category B programme is designed to help you build skills in the science and technology of hydrography and move forward in your career.

### WHY HYDROGRAPHIC SURVEY?

Hydrographic surveyors determine the nature and shape of the seafloor helping to monitor and protect our waterways and maritime infrastructure. It's a unique, exciting and interesting career, with the demand for skilled hydrographers growing to support energy transition and coastal resilience projects.

### ABOUT OUR PROGRAMME

The focus of the programme is to gain practical knowledge and competence reinforced with the necessary theory to cover all the basic and essential subject requirements of the International Federation of Surveyors (FIG)/IHO S5-B

Standards of Competence for Hydrographic Surveyors.

It is 24 weeks; 4 weeks of distance/ e-learning, and the remaining 20 weeks at the British Accreditation Council (BAC) training facility in Plymouth, UK. This can be reduced to a minimum of 16 weeks by exemption from the S5-B Basic Subjects. More details available on request.

The programme can accommodate up to 12 delegates. If fewer than six applications are received for a scheduled programme, it will not go ahead and delegates will be placed on the next available programme.

### WHY STUDY AT THE FUGRO ACADEMY

- Delivered by professionals with a global reputation in hydrography
- Combines practical and theoretical training based on decades of experience in delivering hydrographic surveys globally
- Meets all the essential requirements of the FIG/IHO S5-B standards of competence for hydrographic surveyors
- Successful participants receive a certificate stating they have completed an IHO recognised CAT B programme



## PROGRAMME OUTLINE

### BASIC SUBJECTS (8 weeks)

- Mathematics, statistics and theory of errors
- Information and communication technology
- Physics and engineering
- B4 Earth Sciences
- B5 Nautical Science
- B6 Meteorology

### ESSENTIAL SUBJECTS (11 weeks)

- Underwater acoustics
- Remote sensing
- Water levels and flow
- Positioning
- Hydrographic practice
- Hydrographic data management
- Environment

### FINAL PROJECT (5 weeks)

Field-based with delegates delivering a project to the hydrographic survey specification

- Planning
- Selection of equipment
- Mobilisation and calibration
- Data acquisition
- Data processing
- Production of survey deliverables

## FEES AND EXEMPTIONS

For details on the programme fees, exemption from S5-B basic subjects and how to book please contact the Fugro Academy at [hydro-training@fugro.com](mailto:hydro-training@fugro.com)

## MANDATORY ENTRY REQUIREMENTS

### One of the following:

- A European Qualifications Framework (EQF) level 5 or higher such as a Higher National Certificate (HNC)/Higher National Diploma (HND) or degree, in the fields of surveying, geomatics/geodesy, cartography/GIS, ocean sciences, mathematics, physics or engineering

OR

A minimum of three years' offshore or marine experience in a related industry, military, scientific or engineering environment

AND

- Proficiency in English to level 6 of the International English Language Testing System (IELTS) or equivalent
- Proficiency in general IT hardware and software
- Basic safety and sea survival training (minimum STCW95 or equivalent\*)
- International delegates from outside the UK must apply for a short-term study visa, once an official offer of a programme place has been received

\* A STCW95 course can be completed at the training centre prior to starting the programme. This is at the delegate's own cost.



Survey Training



Land survey skills training



Fugro FV Xplorer survey training vessel off Lerwick, Scotland

