

## Hydrographic Practice (C004369)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)  
Credits 24.0 Study time 720 h Contact hrs 696.0 h

Course offerings and teaching methods in academic year 2020-2021

A (year)	English	Gent	fieldwork	695.0 h

Lecturers in academic year 2020-2021

Annaert, Axel	WE12	lecturer-in-charge

Offered in the following programmes in 2020-2021

Postgraduate Hydrography B	crdts	offering
	24	A

Teaching languages

English

Keywords

Position of the course

Contents

Fieldwork - see Training Record Book

Fieldwork is carried out in hydrographic or hydrographic related companies and governmental organisations under supervision of a supervisor of the company/organisation.

Different tasks as outlined in de Training Record Book (see annex 6) must be carried out during this period, after completion the supervisor will sign the book.

Total fieldwork period is 18 working weeks, divided in 3 parts.

1 day - Basic Safety, Antwerp Maritime Academy

Chr. Sensen

This day the students will learn to board a liferaft, wearing emergency suits and lowering/hoisting/entering/leaving a lifeboat.

In addition an extra 120 hours (3 weeks) of integrated fieldwork organised and supervised by IVH - see Training Record Book and programme:

5 days - building up a survey vessel and do a survey

Axel Annaert

During this period the students will use different surveying tools as Multi/singlebeam and sidescan sonar. Also water analysis, seabed sampling and other research are carried out. They will have the occasion to build a database with information that they can use for later workshops.

1 day - Dredging simulator, Jan De Nul

A. Annaert

In this workshop the students will visit the surveying department of one of the bigger dredging companies and can do exercises on different dredging simulators as there are: Cutter dredger, hopper dredger and backhoe dredger. They can see the influence of the type of dredger on the dredging results and possibilities.

1 day - Polaris and Dynamic Positioning simulator, Antwerp Maritime Academy

A. Annaert

On this simulator the students can do different manoeuvres with different kinds of vessels. Entering port, manoeuvring with twin screw vessels, bow trusters, ...

1 day - Survey techniques

A. Annaert

Setting up a polygonal network with a total station. Practicing various geographical survey techniques.

3 days - QINSy

A. Annaert

The students will use QINSy software to work out the data obtained during the 5 day survey period in order to obtain nautical charts.

1 day - Products and Operations

A. Annaert

DEME (L. Lievens)

1 day - Surveys in support of port management and coastal engineering Offshore industrial surveys

A. Annaert

G-tec (G. Moerkerke)

1-2 days - Visits to research centra and conferences

A. Annaert

Initial competences

Final competences

- 1 Identification of types of surveys, their specifications and processing.
- 2 At the end the student must be able to assist in the installation and calibration of a survey boat.
- 3 He must be able to use the most common survey instruments.
- 4 Knowledge and application of hydrographic surveys.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Fieldwork

Learning materials and price

References

Course content-related study coaching

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Assignment, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

The practical training period must be at least 90 working days (18 weeks) divided over the complete programme.

The programme is finalized by the integrated fieldwork period where the students must do a survey in group.

The evaluation is done at the end after all examinations based on a student's report and the training record book, after an interview based on the students reports.

Calculation of the examination mark