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## Design of Breakwaters

IHE Delft Institute for Water Education

Certificate / Diploma Short course Delft

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### Course description

Qualification Certificate

Field of study Engineering

Course summary The main goal is to familiarise the participants with the design of layout of a port as well as the port related structures in the port area and offshore, such as breakwaters and berthing facilities.

Course description In this short course, the main focus is on the difference between alternative types of breakwaters and governing factors for their selection, the engineering design of breakwaters from conceptual to detailed and the preparation of layouts and detailed cross-sections. In order to achieve these goals, this course contains a real based exercise and participants will be asked to design the breakwaters of a port and defend their design in front of a group of experts. Meanwhile an overview of the use of physical models in design of coastal structures including outline of the factors determining the design of scale models, reproduction of various hydraulic phenomena and scale effects will be given. Also in this course the physical structures and vessels used in the offshore industry will be reviewed.

Study subjects Breakwaters; Offshore Engineering; Physical Modelling.

Course objectives Be able to design breakwaters, from conceptual to detailed, and prepare layouts and detailed cross-sections; Have an overview of structures and vessels used in the offshore industry and their behaviour; Understand how to design a scale model to reproduce hydraulic phenomena; The course can be attended separately or in combination with Coastal and Port Structures II.

ECTS credits 3.50



Duration	2 week(s) full-time
Language of instruction	English
Instruction modes	case study, design project, group assignment, lecture, oral presentation
Accreditation	-

## About the institution

Department IHE Delft

IHE Delft Institute for Water Education is the largest international graduate water education facility in the world and the only institution in the UN system to confer accredited MSc degrees and promote PhDs. It offers degree programmes, short courses, online courses and tailor-made training. Since 1957 the Institute has provided graduate education to more than 15,000 water professionals from over 160 countries. More than 175 PhD candidates were promoted. IHE Delft is at the centre of a vast international network of water related institutions, and functions as an interface between knowledge networks and centres, public and private sector organizations, scientific and professional associations and other members of the international water community. The Institute runs a substantial number of joint MSc programmes implemented in partnership with universities around the globe. These joint programmes combine the strengths of the collaborating institutions and deliver either multiple degrees or a joint degree.

## Admission

Admission requirements

1. Several years of relevant working experience
2. Relevant wo bachelor (academic bachelor): BSc degree or equivalent qualification in a relevant field from a recognised university

Language requirements

IELTS overall band 6  
TOEFL internet based 87  
TOEFL paper based 999

Professional experience required

-

Duration

2 week(s)  
full-time

Application deadlines

Start date	EU/EEA Students	Non-EU/EEA students
2 Mar 2020	2 Feb 2020	2 Feb 2020

Year	EU/EEA	Non-EU/EEA	Institutional
2019 (FT)	€ 1940	€ 1940	n.a.

In short, the following rules apply:



- Tuition fees
- The "EU/EEA rate" is the regular fee for students from within the EU/EEA.
  - The "non-EU/EEA rate" is the rate for students from outside the EU/EEA.
  - The "institutional rate" is for all students who have already obtained a bachelor's or master's degree and who want to start a second programme leading to a degree at the same level or at a lower level.
  - Note that FT, PT and D stand for "full-time", "part-time" and "dual", respectively.

Make sure you contact your institution to find out what rate applies to you. The rates listed here are estimates.

Scholarships Orange Knowledge Programmes (OKP), MENA Scholarship Programme , Netherlands Fellowship Programmes (NFP)

For more scholarships, visit: [www.grantfinder.nl](http://www.grantfinder.nl)

Course website [More information about the course](#)

## Contact

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### **IHE Delft**

Contact information for the institution Student Affairs

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Telephone number

Course website

[More information about the course](#)

Institution website

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