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Industrial Effluents Treatment and Residuals Management

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 objectives of the short course are to enable participants to: i) understand principles of pollution prevention and control; and ii) get insight in wastewater treatment and sludge management

Course description Principles of Pollution Prevention and Control (PPC), 3R principle, 3 step approach, characterization of industrial wastewater, flow and load, toxicity, bio-treatability, pre-treatment vs direct discharge into sewer, basics of chemical-physical-biological processes for industrial effluent treatment, technology selection, industrial sludge management, domestic sludge management, faecal sludge management, sludge generation and origin, sludge characterization, options for sludge treatment, disposal and reuse, case studies from different industries, fieldtrip.

Study subjects Pollution Prevention and Control; Cleaner Production; Chemical, Physical and Biological Treatment of Industrial Wastewater; Case Studies Various Industries; Sludge Collection, Treatment, Disposal and Reuse.

Course objectives Understand principles of pollution prevention and control and cleaner production; Master different technologies for industrial wastewater treatment; Get familiar with more than dozen different industries and their effluents treatment systems; Understand residuals/sludge management techniques regarding its collection, treatment, disposal and reuse.



ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	lecture, case study, design project, excursion, individual assignment
Accreditation	-

About the institution

Department IHE Delft

Information about the institution
 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) MSc programme entry requirements

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

Professional experience required
 -

Duration
 3 week(s)
 full-time

Application deadlines

Start date	EU/EEA Students	Non-EU/EEA students
11 Jun 2019	11 May 2019	11 May 2019
8 Jun 2020	8 May 2020	8 May 2020

Year **EU/EEA** **Non-EU/EEA** **Institutional**
 2019 (FT) € 2910 € 2910 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

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

Contact

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IHE Delft

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Telephone number

Course website

[More information about the course](#)

Institution website

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