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Industrial Resource Management and Cleaner Production

IHE Delft Institute for Water Education

Certificate / Diploma Short course Delft

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Course description

Qualification Certificate

Field of study Agriculture and environment

Course summary MODERN THINKING/PRACTICE OF SUSTAINABLE RESOURCE MANAGEMENT, FOCUS ON WATER. CLEANER PRODUCTION, POLLUTION PREVENTION, LIFE CYCLE ANALYSIS, ENVIRONMENTAL & URBAN WATER MANAGEMENT SYSTEMS.

Course description Objective: instilling a prevention oriented way of thinking with the participants. This relates to the use of water and, thus, to the generation of wastewater but places and practices this need for prevention in the wider industrial and domestic context. Abilities after the module: to suggest options for pollution prevention within urban and industrial water management settings; assess the environmental impact of products and processes; suggest treatment/disposal methods for industrial wastewater; understand the importance of environmental monitoring of industrial processes; employ a systemic approach to water resources management. The off-line module on CPWC: a 3 weeks, full-time study with a load of approx. 140 hours resulting in 5 (European) credit points (ECTS). The off-line module contains the following subjects: • Introduction to the scientific field of Cleaner Production; • Life Cycle and Material Flow Analysis; • Environmental Management Systems; • Urban Water Management; • Industrial Water Management; • Nutrient Management
1. Introduction to the field of Cleaner Production (CP) 2. Life Cycle Analysis (LCA), Eco



Study subjects	Design and Material Flow Analysis (MFA) 3. Environmental Management Systems (EMS) 4. Corporate social responsibility (CSR) 5. Industrial Water Management (IWM) 6. Water Footprint (WF) 7. Eco-industrial parks and Industrial ecology (EIP and IE)
Course objectives	(i) suggest options for preventing pollution in urban and industrial settings (ii) assess the environmental impact of products and processes (iii) suggest treatment/disposal methods for industrial (iv) understand environmental management systems in the industrial context (v) indicate how the sustainable use of resources can be beneficial (vi) analyze system tools that support industrial ecology
ECTS credits	5.00
Duration	3 week(s) full-time
Language of instruction	English
Instruction modes	case study, individual assignment, lecture, research, self study
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 in civil, chemical, agricultural or environmental engineering, natural sciences, chemistry, environmental science, agriculture, geology, geography, or in environmental economics.

Language requirements

IELTS overall band	6
TOEFL computer based	213
TOEFL internet based	80
TOEFL paper based	550

Professional



experience required	-		
Duration	3 week(s) full-time		
Application deadlines	Start date	EU/EEA Students	Non-EU/EEA students
	20 Apr 2020	20 Mar 2020	20 Mar 2020
	Year	EU/EEA	Non-EU/EEA
	2019 (FT)	€ 2910	€ 2910
			Institutional 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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Contact information for the study programme Admission and Fellowship Officer

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IHE Delft

Contact information for the institution

Student Affairs



info@un-ihe.org

Telephone number

Course website

Institution website

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