



MANAGING THE IMPACTS OF UNDERWATER NOISE

From source description to impact management

This modular, self-paced, online course shows you how to carry out biological risk assessments of environmental noise impacts. This knowledge is used for EIAs for e.g. wind farms, seismic surveys, shipping, dredging and other human activities. We carry you through all the steps of a risk-based approach, right from sound source description to impact management. This will enable you to understand how noise impact assessment works, whether you have to provide advice to regulators or if you have to perform assessment yourself.

You will learn about the Underwater Acoustics Simulator (UAS) module in MIKE Powered by DHI, which simulates propagation of noise with a state-of-the-art Acoustic Model. We will also show new ways of assessing the reaction of marine mammals and fish to sound using agent based modelling.

COURSE MODULES AND TOPICS

- Module 1 – Effects of Noise on Aquatic Life
- Module 2 – Underwater Acoustics
- Module 3 – Underwater Acoustic Simulator
- Module 4 – Noise Impact Assessment and Management

TARGET GROUP AND PREREQUISITES

Biologists performing an EIA, professionals in hydraulic engineering, acousticians and management working with coastal areas and or marine environments, marine industry managers, regulators, scientists, students or anyone who wants to know about the impact of underwater sound on marine life.

DATE AND TIME

Modular, self-paced online course.
Four modules with lectures and exercises.

LOCATION AND VENUE

Online.

FEES AND DISCOUNTS

Free of charge.

LANGUAGE

Lectures and training material are in English.

FURTHER INFORMATION AND CONTACT

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Natalia can help you in the English and Russian language.

RELATED COURSES

- MIKE 3 Flow Model FM - 3D hydrodynamic modelling using flexible mesh
- MIKE 21/3 ECO Lab - 2D and 3D water quality and ecological modelling
- ABM Lab - Agent based modelling
- MARINE HABITAT CONNECTIVITY - A numerical approach to study biological connectivity between marine habitats
- ENVIRONMENTAL IMPACT ASSESSMENTS - EIAs and support tools



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INSTRUCTORS

FRANK THOMSEN

Frank Thomsen works as a Sales Executive at DHI. Frank is specialised in the design and implementation of noise related impact studies. He has performed forecasts as well as detailed noise risk assessments for a variety of activities, ranging from the construction and design of offshore wind parks to impacts from shipping.

Frank has extensive experience advising international bodies such as the UN, OSPAR and the EU on noise impacts.

Frank Thomsen carried out his PhD work on the whistles of wild killer whales in British Columbia at Hamburg University, Germany.



GÜLCE YALÇIN

Gülce Yalçın works as a Biologist at DHI. Her main field of research is marine mammals and cetacean acoustics. Gülce has specialised in the assessment of noise related impacts and she has performed a number of EIA studies analysing the effects of offshore wind farms on harbour porpoises.

MSc, Marine Biology, Middle East Technical University, Turkey.



THOMAS UHRENHOLDT

Thomas Uhrenholdt works as a Senior Hydraulic Engineer at DHI. Thomas' areas of work cover marine, coastal, estuarine and riverine engineering, and environmental science. He has specialised in numerical modelling with focus on the development and application of 2-D and 3-D models (MIKE 21, MIKE 3) of hydrodynamics, waves, sediments, water quality and ecology related processes in both consultancy and R&D projects. Thomas is today involved in the development and application of DHI's underwater acoustic simulator (UAS).

MSc, Civil Engineering, Aalborg University, Denmark



THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-2-face and online.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

Learn more about THE ACADEMY on www.theacademybydhi.com

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