



Port of  
Antwerp  
Bruges  
International



Course in Antwerp  
**DREDGING  
TECHNOLOGIES**

08/06/2026 - 19/06/2026

A smart port connecting smart people

## WHY

Dredging plays a crucial role in coastal infrastructure projects and guarantees port access and the navigability of waterways. It is of essence to understand how the process of dredging can be performed safely, efficiently and cost-effectively in combination with attention to the marine ecosystem and its marine biodiversity in order to face upcoming challenges such as long periods of drought, a growing population, reduction of CO2 emissions, polluted rivers, seas and soils, ... Two prominent dredging companies, DEME Group and Jan De Nul Group, are based in Belgium and bring a substantial contribution to the programme, including engaging activities, inspiring field excursions, dredger simulators, etc.

## FOR WHOM

The course is open to both technical and non-technical professionals, engaged in managerial or operational aspects of the dredging business, such as: government officials, port authorities, project owners working for governments, construction companies, conservation agencies, coastal engineering companies and other stakeholders involved in dredging contracts.

## WHAT

This high-level seminar on Dredging Technologies gives an overview of the latest applications, technology, equipment and environmental aspects of dredging and the project management that goes along.

Experienced port professionals and academics will provide in-depth content in a well-balanced combination of theory sessions and visits, completed by case studies.

The programme consists of 6 modules:

- **Maintenance versus Capital Dredging**
  - Why dredge?
- **Dredging types, Processes, Techniques and Equipment**
  - Functioning and field of application
  - Trends and innovations
  - Case studies
- **Stages of the Dredging Project**
  - Reducing costs and risks in your own projects
  - Identification, investigation, feasibility, studies, design, construction and maintenance
- **Visits**
  - Site visits within the Port of Antwerp & the Port of Zeebrugge, Flanders Hydraulics, Royal IHC and many others.
- **Types of Dredging Contracts**
  - Standard types of dredging contracts
  - Key principles to consider when preparing a contract
  - How to minimize the risk of claims
- **Site Conditions and Soil Characteristics**
  - Scope site conditions, soil characteristics and environmental aspects, surveying and geotechnical investigations
- **Environmental Aspects of Dredging**
  - Impact on the environment and how this can be addressed through planning, management, mitigation and monitoring of the project

## KEY PERFORMANCE INDICATORS

- Dredging productivity measures the volume of material removed per hour or per day.
- Cost efficiency tracks the actual project cost compared to the planned budget.
- Environmental compliance rate measures adherence to environmental standards and mitigation requirements during dredging operations.