

A smart port connecting smart people

Live Port Course  
JNPA-APEC

# DREDGING TECHNOLOGIES

11/09 – 15/09 2023



Port of  
Antwerp  
Bruges  
International

## WHY

Dredging is a major financial cost for all ports. Moreover if dredging is not done in a proper way, the design depth of the fairway / port infrastructure can not be maintained, limiting the accessibility of the port for deep drafted vessels. In order to control the cost of dredging and allow your port to grow and operate in a sustainable way, it is crucial to understand the different steps of a dredging project. This will allow you to make the right decisions in order to execute dredging projects safely, efficiently and cost-effectively, with attention to the marine ecosystem and its marine biodiversity.

## 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: dredging contractors and those involved in dredging projects at offshore companies, port authorities, conservation agencies, project owners working for governments, coastal engineering companies and dredging contractors in other organisations.

### Course fee: Rs 100 000

The course fee covers the course material, airport pick-up / drop off, accommodation ( 5 nights in a twin sharing room) and all meals and beverages ( no GST included)

\* A single room can be provided at an additional cost of Rs 20 000 and is subject to availability

## Contact us

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## WHAT

Dredging plays a crucial role in coastal and port infrastructure projects and guarantees port access and the navigability of waterways. This seminar on Dredging Technologies gives you an overview of the different steps of a dredging project, including latest innovations and technology, best practices concerning contract arrangements as well as environmental aspects of this topic. Multiple case studies with a focus on Belgium – Europe as well as India – Asia will be given to illustrate the do's and don'ts of a good dredging project.

The programme consists of 6 modules:

### 1 Motivation to dredge

- Why dredge
- What do we dredge
- Maintenance versus capital dredging works

### 2 Dredging types, techniques and equipment

- Functioning and field of application
- Best practices
- Trends and innovations
- Case studies

### 3 Stages of a dredging project

- Reducing costs and risks in your own projects
- Identification, investigation, feasibility studies, design, construction and maintenance

### 4 Types of dredging contracts

- Standard types of dredging contracts
- The key principles of contract preparation
- Minimising the risk of claims
- Calculating volumes to dredge as a basis for payments
- Case studies

### 5 Site conditions and soil characteristics

- Scope site conditions, soil characteristics and environmental aspects
- Surveying and geotechnical investigations
- Case studies

### 6 Environmental aspects of dredging

- Environmental impact and corresponding solutions with regard to planning, management, mitigation and monitoring of the project.
- Case studies