

INFORMATION

# PORT MANAGEMENT PROGRAM 2025







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## 1.1 BRIEF INTRODUCTION PORT MANAGEMENT PARTNERS

### STC Next

STC Next is the leading knowledge institute on human capital development world-wide. Education, training, technical assistance and research are provided to the maritime and transport (related) industries. All programs are conducted by experts from the industries in combination with high-tech simulation wherever possible. Competency, rules and regulations, efficiency, environment, safety and security are key issues in the services provided. By doing so, people are offered the ability to create a sustainable family income. Organisations can benefit by having a motivated and skilled labour force.

#### STC Next provides its services to the clusters:

1. Maritime and Offshore
2. Port and Terminals
3. Transport and Logistics
4. Process Industry and Energy

The company currently operates centres of excellence in the Netherlands, Colombia, Oman, Vietnam and South Africa. STC Next is an experienced partner that provides and migrates prime knowledge for the national and international transport and maritime cluster in a sustainable and innovative way, in order to bring people, institutions and companies to a higher level of education.







### Port of Rotterdam Authority

The port of Rotterdam is a cornerstone of the Dutch and European transport and economic systems. In addition to the significant economic and social value the port holds in the Rotterdam Rijnmond region, it also benefits the logistics sector and businesses that import and export in the rest of the Netherlands and Europe through employment, added value, revenue and business locations.

The Port of Rotterdam Authority's core tasks are the sustainable development, management and operation of the port and maintaining the smooth and safe handling of shipping. The aim of the Port of Rotterdam Authority is to strengthen the port's position as a logistics hub and future-proof industrial complex.

In doing so, it's not size, but rather quality that takes precedence. The Port of Rotterdam Authority takes responsibility for the impact of the activities in the port on the climate and immediate surroundings. The health and safety of current and future generations are an integral consideration our decision-making, including in our cooperations with businesses.

### Facts and figures for the Port of Rotterdam Authority and the port of Rotterdam:

- Port of Rotterdam Authority: approximately 1,400 employees, revenue approximately € 882 million.
- Port area: 12,500 hectares (land & water, including approximately 6,000 hectares of industrial sites). The port area is more than 40 kilometres long.
- Employment: (direct and indirect) 192,000 jobs in the Netherlands.
- Goods throughput: approximately 436 million tons of goods a year.
- Shipping: approximately 28,000 seagoing vessels and 91,000 inland vessels annually.
- Added value: (direct and indirect) €29.6 billion 2.9% of Dutch GDP.

## 1.2 OUR INTERNATIONAL PARTNERSHIPS





## 2.1 BRIEF INTRODUCTION TO THE PORT MANAGEMENT PROGRAM

Port development and management present major challenges including adjusting ports to rapidly changing market dynamics especially in the current geopolitical developments. Ports need to be resilient to face these challenges. Making big long-term infrastructure investment plans in an uncertain and ever changing market climate, adjusting to the technical and operational requirements of bigger vessels and increasing cargo volumes is a challenge to face. Global trends such as energy transition and digitalisation require innovative solutions.

Challenges as how to make future port infrastructure play a significant role in the course. These are the challenges which governments, port authorities, and port operators increasingly have to contend with. These challenges require staff with a deeper and more nuanced understanding in the complex dynamics of the port industry. Education and training plays a significant role in obtaining the knowledge and skills needed. The Port Management Program offers candidates the understanding and analytical mind-set needed to confront these challenges.

### Organised by:

Port of Rotterdam Authority &  
STC Next

### Venue:

On location, Rotterdam

### Lecture topics:

- Role of Ports in an Ever-Changing World
- Energy Transition & Sustainability
- Port Master Planning and Triple Helix: Driving Collaboration in Port Ecosystems
- Building the Ports of the Future



## 2.2 MODULES

To ensure proper learning, the education curriculum of the Port Management Program is presented to the participants in modules. During the 5-day training, knowledge is built up, starting from the basics, ensuring common understanding among all participants, and progressing to the complex dynamics of building the ports of the future. Below, the training modules are outlined.

### Module Role of Ports in an Ever-Changing World

This module provides a comprehensive exploration of the critical role ports play in global trade, industry and economic development. Participants will gain insights into port governance, the impact of geopolitical and future developments shaping the maritime sector. Through expert lectures, discussions, and an immersive experience at the Port of Rotterdam, this session offers a dynamic learning opportunity to understand the evolving landscape of resilient port operations and their significance in a rapidly changing world.

### Module Port Business & Management

Delving into the complexities of port business operations, trade logistics and management strategies, participants will explore key aspects of port development, container trade and customs regulations through expert-led sessions and site visits at Maasvlakte II. By engaging with industry professionals and experiencing port



operations firsthand, this program provides a practical understanding of the challenges and opportunities in modern port management.

### Module Energy Transition & Sustainability

Exploring the critical role of ports in driving the global energy transition and fostering sustainable practices as part of the changing landscape of energy usage is the goal of this module. Participants will gain insights into emerging energy systems, including hydrogen and alternative fuels, as well as strategies for sustainable transport, carbon capture storage and the use of residual heat from the port industry. Profound experts input, interactive discussions and a relevant industry visit, provides a forward-looking perspective on how ports are adapting to meet the challenges of a greener future.

### Module Port Master Planning and Triple Helix: Driving Collaboration in Port Ecosystems

Strategic planning (building with nature) and collaborative frameworks that shape modern port ecosystems are the base for current and future licenses to operate. Participants will explore key topics such as port master planning and the integration of ports with urban environments. The importance of collaboration between government, industry, and academia is reflected in the Triple Helix model of innovation. Human capital development will create the workforce, being able to realise sustainable growth and are ready to operate in a resilient way to face modern day port and related industries challenges. The educational and training components of the above developments is shown by our experts and supported by visits to various types of simulators.

### Module Building the Ports of the Future

Innovations and related strategies shape the future of port development. Participants will engage with key topics such as stakeholder engagement, digital transformation, and innovation. Being in the heart of the practical learning and innovation environment of the Port of Rotterdam together with a hands-on activity, the week will be finished to take home a forward-thinking perspective on how ports can remain competitive, sustainable, and resilient in an evolving global landscape.



## 2.3 PROGRAM CHARACTERISTICS

STC Next and Port of Rotterdam Authority offer port professionals a deeper and more nuanced understanding of the complex dynamics of the port industry. Our program introduces you to the key aspects of building the future of ports.

Our 5-days training program tailored to port professionals offers a comprehensive curriculum that has certified more than 170 professionals over the course of 15 years. Participating in the training means tapping into knowledge and experience built over the years, and shared with experts from all over the globe. By the end of the week, after successfully finalizing all training and modules, participants receive a certification of attendance.

### Interactive Lectures

The program consists of interactive lectures delivered by relevant experts of Port of Rotterdam Authority and STC-Next professionals. The lectures aim at applying centuries of combined port development expertise to the local context.

### Maasvlakte 2, Terminal visits, Customs & Branche organisations

Excursion(s) to the port and/or to port and industrial operations is a crucial element, linking concepts to practice and classroom examples to reality.

### Hands-on activities

Participants learn valuable insights in an innovative, creative, safe and interactive way. During the program participants are invited to apply the insights they have acquired to specific case studies and when possible to local context. Our hands-on activities will help you not only to get an understanding of the topics, but apply them in a way impact is shown on the choices that are made. The training experts offer feedback and insights during the execution of the activities, promoting dialogue in the group.

### Deliverables

Presentations held during the program, PMP Certificate of Attendance and a short document (presentation or letter) with main insights derived from the program (upon request).

### Participants

The Port Management Program takes place with a minimum of 15 and a maximum of 25 participants. Additionally, at least an intermediate proficiency in the English language is necessary to successfully participate.

### Rahma Al Hashmi

Sohar Port and Freezone, Oman

*"I'm taking back with me good connections and a futuristic look at what a port can actually transform into."*

## 2.4 ENTRY LEVEL

The Port Management Program is a tool developed for capacity building for the following target groups.

### Executives

This program contains Strategic and Board related issues for Board members and senior managers in ports, governments and terminals.

### Project Teams

Teambuilding well suited for newly formed departments or mixed project teams.

### Support functions

In depth programs for port employees in IT, Finance, HR, Communication, Marketing, Procurement, Project Managers and Consultants.





## 2.5 PROGRAM DETAILS

LOCATION	The Netherlands, Rotterdam
CONTEXT	The Port Management Program offers port professionals a deeper and more nuanced understanding of the complex dynamics of the port industry. Our program introduces you to the key aspects of building the future of ports.
MAIN TOPICS	Role of Ports in an Ever-Changing World, Energy Transition & Sustainability, Port Master Planning and Triple Helix: Driving Collaboration in Port Ecosystems, Building the Ports of the Future.
OBJECTIVE(S)	By participating the Port Management Program candidates get an in-depth, comprehensive overview of Port of Rotterdam's 'port eco system', build solid contacts with other professionals from port businesses worldwide and gain knowledge and insights on all relevant port related topics.
NO. OF DAYS	5 consecutive days 6 October - 10 October 2025 (informal opening 5th October afternoon)
ENTRY LEVEL	Port professionals, minimal Bachelor's level, Intermediate English proficiency



### Thiwagar A/L Muniandy

Port Klang Authority, Malaysia

*"We have people from Brazil, Malta, Oman. We are connected and having healthy discussions, sharing knowledge and best practices about what we are doing in each port. This has been an incredible session."*

Port Management Programs, and related services are offered upon request and availability. Please contact us for availability, prices and the applicable Terms & Conditions.

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