

# ABB Marine Academy course description

## H921 - OCTOPUS OFFICE

### Course goal

This course prepares project engineers and naval architects for running valid analyses and using their results for various purposes including importing them to OCTOPUS Onboard

### Learning objectives

Upon completion of this course the participants will be able to:

- Operate the OCTOPUS OFFICE software in the most efficient way
- Understand its capabilities and functionality
- Identify potential errors and solve them
- Know how to use the extension modules and prepare the input in order to maximize the output accuracy

### Contents

- Creation of 2D and 3D hull models
- Modification of existing hull models
- Convert different hull file formats
- Creation of 2D hydrodynamic databases
- Import of 3D hydrodynamic databases from 3D radiation/diffraction solvers
- Creation of RAO's based on a 2D/3D hydrodynamic database and loading condition
- Creation and import of loading condition
- Creation and import of sea states
- Creation and import of voyage plan
- Creation scatter diagrams
- Calculation of spectral moments based on sea state(s) or scatter(s)
- Automatic selection of best matching sea state dependent RAO with sea state in short term statistic calculations
- Calculation of design criteria which can be used in OCTOPUS Onboard
- View of a short and long term statistics
- Creation of a reports
- Export of a results

### Methods

Presentation

Hands-on exercises using software



### Student profile

All personnel using OCTOPUS Office, naval architects, project engineers, nautical superintendents, maritime students

### Prerequisites

At least basic knowledge of vessel motions and marine terminology; Strong analytic skills

### Duration

1 day (8 hours)

### Venue

Rotterdam / Clients site

### Additional information

Maximum number of participants: 6

# H921 - OCTOPUS OFFICE

## Course outline

---

### Course outline

---

#### Day 1

- Introduction
- Hull modelling
- Import files
- Functionality
- Reports
- Practical exercises