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)
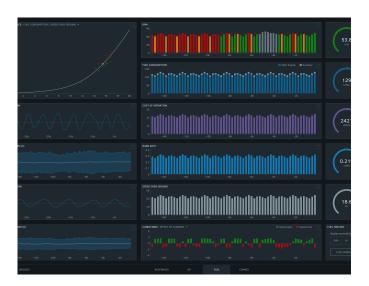- Automatic selection of best matching sea state dependent RAO with sea state in short term statistic calculations
- Calculation of design criteria which can be used in OCTOPUS Onboard
- View of a short and long term statistics
- Creation of a reports
- Export of a results

Methods
Presentation
Hands-on excercises 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

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Course outline

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Day 1
- Introduction
- Hull modelling
- Import files
- Functionality
- Reports
- Practical exercises

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