



## DIGITAL SOLUTIONS

# SIMULATION OF MARINE OPERATIONS

Course code: SE-21

Duration: 3 days

Prerequisite:

It is required that the participants are familiar with hydrodynamic analysis.

No previous experience in use of Sesam is required, but it is beneficial to have knowledge of Sesam's hydrodynamic tools, HydroD and Wadam, as used in SE-06 Hydrodynamic analysis of offshore floaters - frequency domain.

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### DESCRIPTION

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The course introduces the participants to Sesam's tools for simulation of marine operations, e.g. heavy lifting, side-by-side mooring and floatover.

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### LEARNING OBJECTIVES

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Learn how to simulate marine operations like for example deck mating, lifting of large deck structures and modules, lift inallation of subsea templates and towing by using Sima as a graphical front end to Simo and Riflex.

The following topics will be covered:

- Modelling marine simulation in a visualized Sima environment
- Flexible force models for complex marine operations
- Environmental loading due to wind, waves and current
- Modelling of floating wind turbines
- Interaction with Sesam suite of programs (HydroD and Wadam)
- Post-processing of results

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### TARGET GROUP

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Naval architects and marine engineers involved in analysis of marine operations.