



## DIGITAL SOLUTIONS

# HYDRODYNAMIC ANALYSIS OF OFFSHORE FLOATERS - FREQUENCY DOMAIN

Course code: SE-06

Duration: 2 days

**Prerequisite:**

It is required that the participants are familiar with hydrodynamic analysis. Since this course does not cover the creation of models used in hydrodynamic analysis it is beneficial if the participants have knowledge of Sesam, as covered in either of the courses SE-01, SE-03 or SE-04.

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### DESCRIPTION

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This course introduces the participants to the Sesam programs for wave load analysis of offshore floaters based on the frequency domain methodology.

The course addresses hydrodynamic analysis, short- and long-term statistics, and transfer of wave loads to structural analysis. HydroD is the main tool, supported by Wadam, Postresp and Xtract.

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### LEARNING OBJECTIVES

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Learn how to perform global hydrodynamic response analysis, transfer loads to structural analysis, compute short- and long-term statistics, and animate results. The exercise is based on a semi-submersible or FPSO.

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### TARGET GROUP

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Naval architects involved in conceptual studies and detailed engineering of any offshore floating structure.