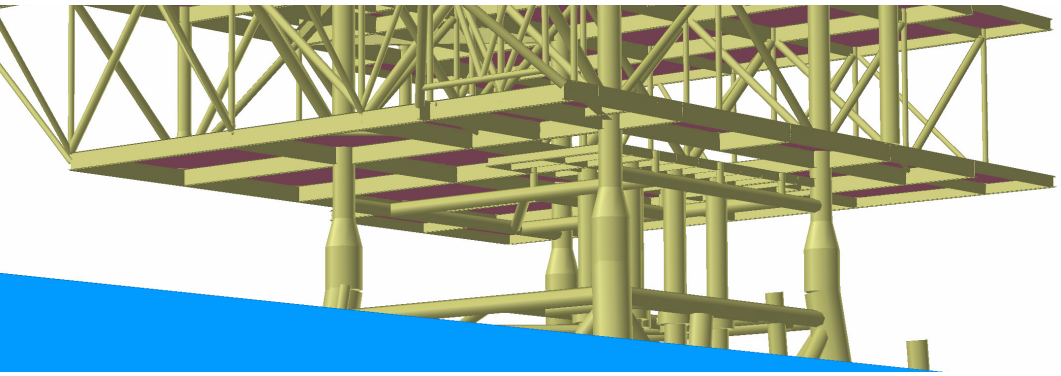

DIGITAL SOLUTIONS

SESAM FOR JACKET DESIGN – FROM CONSTRUCTION TO INSTALLATION

Course code: SE-30
Duration:
Option 1: 12 weeks - per week: 1 evening training + home work
Option 2: 5 days of intense training
Option 3: 10 days of training

Prerequisite:
Requires basic skills in Sesam, course SE-01 Concept based FE modelling and analysis using Sesam - Introductory or similar, and jacket design.

DESCRIPTION

This workshop is meant to guide an engineer through the various analysis tasks required for a jacket design. The workshop is built up in lectures focusing each analysis task – this means that the attendee should have basic skills in Sesam and jacket design from before. The workshop material is built up to guide users though all steps required – in addition there is a general introduction to the subject jacket design and there are more explanations on the reason behind some of the design stages.

This workshop is divided into the following sections:

- Introduction
- Defining the workflow
- Modelling structure, loads, environment, pile and soil
- Linear analysis with wave and non-linear pile/soil
- Code checking of members (jacket and topside)
- Code checking of tubular joint
- Dynamic analysis (including eigenvalue)
- Fatigue analysis (spectral)
- Load-out analysis
- Jacket transportation analysis (centripetal accelerations)
- Deck lifting analysis
- Jacket launch analysis
- Un-piled condition

LEARNING OBJECTIVES

Learn how to design, model and install a jacket.

TARGET GROUP

Structural engineers performing design engineering of jackets.