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~~Explosion of~~

~~Submarine Hull |~~

~~Total Wave |~~

~~17-18 Offshore~~

~~structure~~

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~~Tips to Improve~~

~~Your FEA: Tips~~

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*Webinar: Untold  
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in Abaqus CAE  
for Day to Day  
Work* **Finite**

**element analysis  
through ABAQUS  
Chapter 1 (7 2D  
plate element  
modeling)  
Explicit**

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~~Dynamics~~

~~Analysis with~~

~~Abaqus Seismic~~

~~Analysis Lecture~~

~~#11 Pushover~~

~~Analysis - Dirk~~

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~~Free Span~~

~~Analysis~~

~~(Compact~~

~~Version)~~

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~~Hydrodynamic~~

~~simulation~~

~~offshore~~

~~platform storm~~

**ABAQUS AQUA-**

**Offshore riser**

**analysis BISEP™**

**- Subsea Pipe**

**Buckle Line**

**Replacement**

**ABAQUS #1: A**

**Basic**

**Introduction 17**

**exemples de**

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simulations

numériques par  
éléments finis

(Abaqus) **Fatigue**

**Analysis** SIMULIA

~~—The Airbus~~

~~A350 Developed~~

~~with Dassault~~

~~Systemes—~~

~~3DEXPERIENCE~~

~~Platform~~ SIMULIA

Abaqus

windturbine

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Offshore

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Platform -

Breaking Mooring  
Lines

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Fatigue Failure

Analysis ~~Abaqus~~

~~Coupled Eulerian~~

~~Lagrangian (CEL)~~

~~Modelling~~

~~Tutorial:~~

~~Example - Water~~

~~Sloshing in Tank~~

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Dynamic Explicit  
Analysis in  
ABAQUS CheFEM

Tutorial 3:  
Multicomponent  
Analysis

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Dynamic analysis  
- 1 : Part 1 Lec  
4

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Simulation of  
Boat on Wave by  
Abaqus *Abaqus*  
*Offshore Wind*  
*Turbine Jacket*

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For Offshore

Collision with

Vessel COGGE

Webinar Series:

Large

Deformation

Modeling for

Geological and

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Engineering

finite element

model (offshore

foundation for a

wind turbine)

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For Offshore  
Analysis

conditions,  
nonlinear stress  
states,  
extensive  
contact, pipe-  
soil  
interaction,  
model wave,  
buoyancy,  
current & wind  
loading, drag  
chain, pipe, PSI  
and ITT  
elements.

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Analysis. This  
in-depth, indust  
ry-specific  
course covers a  
wide variety of  
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functionality that can help overcome the unique analysis challenges commonly faced by the offshore oil and gas industry, such as Pipe-soil interaction, Abaqus/Aqua capabilities to model wave,

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buoyancy,

current & wind

loading and

Coupled Eulerian-

Lagrangian (CEL)

approach in

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already work or

will start...

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some unique  
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challenges.  
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training is a  
perfect fit for  
advanced FEA  
users who want  
to get a better  
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material  
behavior (metal  
plasticity and  
hyperelasticity)  
Capabilities of  
Abaqus element

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types in general  
Specific element  
discussions  
include drag  
chain, pipe, PSI  
and ITT elements  
Pipe -soil  
interaction,  
including  
lateral buckling  
of a pipe line  
on a seabed  
Abaqus/Aqua  
capabilities in



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current & wind  
loading ...

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### discussions

include drag  
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Contents. Day 1  
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Materials Metal

and Rubber

Behavior and

Modeling

Overview of

Geotechnic

Materials

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Rubber Material

Evaluation

Lecture 5:

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Solid Elements

in Abaqus Beams,



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Shells, and  
Solid elements  
Session 4

Workshop 2:  
Axisymmetric  
Pipe Expander  
Example Lecture  
6: Special  
Purpose Elements  
(Part 1) ITT,  
PSI, Drag Chain,  
and Spud Can  
elements.

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analysis: is  
used to apply  
steady current,

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wave, and wind loading to submerged or partially submerged structures in problems such as the modeling of offshore piping installations or the analysis of marine risers;

**Abaqus/Aqua**

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### **Analysis**

This course is a comprehensive and unified introduction to the modeling and analysis capabilities of Abaqus. It teaches you how to solve linear and nonlinear problems, submit and monitor

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and view  
simulation  
results using  
the interactive  
interface of  
Abaqus.

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platform

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of offshore  
structure in  
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gravitational,  
environmental  
and buoyancy  
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considered.  
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Introduction to

Non-Linear

Analysis

## **Abaqus Explicit Analysis**

In this paper,

the numerical

calculation

model of

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offshore wind  
power single  
pile foundation  
in heterogeneous  
soil is  
established by  
finite element  
analysis  
software ABAQUS.  
In the model,  
the wave, ocean  
current and wind  
load on the pile  
foundation are

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Equivalent to

two-way

symmetrical

cyclic load .

Based on the

model, the

lateral soil

resistance of

offshore wind

power large

diameter steel

pipe pile in

heterogeneous

soil under

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horizontal  
cyclic load is  
studied.

**Analysis of  
influencing  
factors of  
lateral soil  
resistance ...**

ABSTRACT

Offshore  
pipelines are  
commonly buried  
in seabed for

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protection  
against damage,  
for better  
insulation and  
to prevent  
upheaval  
buckling induced  
by thermal and  
pressure  
loadings. The  
uplift  
resistance  
provided by the  
backfill soil is

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An important  
design parameter  
when determining  
the correct  
burial depth for  
a given  
pipeline.

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