

Orca Operator

Overview

Orca Operator focuses on the operational functionality of Orca. The course will take the delegates through the procedures involved in deploying, planning, shooting, monitoring and finishing a line.

Duration

A four day course held at our Edinburgh training facilities. (09:30 ~ 17:00)
Due to the amount of equipment required, it is not possible to run this course away from the dedicated training area at our Edinburgh facilities.

Who should attend

The course is designed for navigators and operators who are new to the industry or have experience in a different area of seismic acquisition and would like to learn about Orca.

Objectives

The course will provide the skills and knowledge to perform the daily navigation production tasks required onboard modern deep marine seismic vessels involved in acquiring 2D, 3D, 4D and WATS surveys.

Prerequisites

No previous knowledge of Spectra, Sprint, Reflex or Orca is required. Some knowledge of geodesy and basic navigation techniques is preferred but not essential.

Teaching Methods

The course will be a mixture of demonstrations and practical sessions. Hands-on exercises and practice time will be given at every available opportunity.

On completion of the course delegates will be able to

- Understand the basic operation of Orca and the principle nodes within the system
- Start and stop Orca, verifying that all modules are operating correctly
- Use the Planning module to full effect for single and multi vessel operations
- Configure and position Display servers
- Control steering for single and multi vessel operations
- Understand multi vessel operations giving an awareness of the system capabilities on a slave vessel
- Start and stop lines
- Use the Diagnostics Node, Orca Web and Display servers to monitor a line
- Knockout observations, nodes, streamers and vessels
- Run and re-run End of Line tasks
- Understand Edits and their effects on the final data files
- Import P1/90 from Sprint
- Change surveys
- Understand the requirement and basic functionality of the PowerRTNU/RTNu

Course Content

Orca Overview

- Overview of Orca demonstrating functionality and capabilities of the system
- Instrument room integration

Orca Planner

- Using the Planning module to full effect for single and multi vessel operations

Orca Displays

- Configuring and positioning Display servers
- Contexts

Operations

- Starting and stopping the system
- Importing preplots
- Controlling steering for single and multi vessel operations
- Starting, shooting and stopping lines
- Monitoring lines and diagnostics
- End of Line tasks and reports
- Knockouts – Observation, Node, Streamer, Vessel
- Edits and their effects on the final data
- Changing surveys

Multi vessel

- Introduction to multi vessel operations demonstrating an awareness of the system capabilities on a Slave vessel
- Configuring surveys for slave vessels

Sprint

- Importing from Sprint

PowerRTNU

- Introduction to the PowerRTNU
- Interfaces and triggers