

Orca Configuration and Diagnostics

Overview

The Orca Configuration and Diagnostics course focuses on the technical and diagnostic aspects of the Orca system. You will learn how the various nodes, database stores and hardware units interact with each other as well as how to troubleshoot the system if problems occur.

Duration

A five day course primarily 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 dedicated training area at our Edinburgh facilities.

Who should attend

This course is designed for experienced navigators who have used Orca for a minimum of 6 months and have knowledge and experience using the Linux command line.

Objectives

The course will provide the skills and knowledge to configure, troubleshoot and maintain an operational Orca system.

Prerequisites

It is expected that the delegates will have used Orca in the field for typical operations and are familiar with all aspects of Orca operation. The delegates should also be familiar with navigating the Linux operating system via the command line.

Teaching Methods

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

On completion of the course delegates will be able to

- Install Orca and apply updates
- Configure hardware and interfaces
- Configure a vessel network
- Configure multi vessel operations
- Interrogate the Data Server and Message Server
- Interrogate and Repair Datastores
- Backup and recover a system
- Understand the basic function of NRT
- Understand the DMU interface
- Interface to and import from Sprint
- Configure and use Reflex with Orca
- Troubleshoot the system using the Diagnostics node
- Create and configure a new survey
- Understand 3D, 4D, WATS and WAZ shooting modes and their implications
- Configure custom reports

Course Content

Installation

- Key operating system setup
- Installing upgrades and patches
- Environment variables, directory structures, and Datastores
- Backup and recovery

Interfaces and the PowerRTNU/RTNu

- Installation and configuration of the PowerRTNU/RTNu
- Interface and trigger configuration

Vessel Configuration

- Creating new surveys
- Spread configuration
- Network nodes and observations

Shooting Modes

- 3D
- 4D
- WATS
- WAZ

Multi Vessel

- Configuring multi vessel systems
- Multi vessel operations

NRT

- Introduction to NRT

DMU

- Introducing the DMU
- Interfacing to the DMU

Sprint

- Interfacing with Sprint
- Importing P1/90 from Sprint to Orca

Reflex

- Configuration and use of Reflex with Orca

Reports

- Configuring custom reports

Troubleshooting

- Data Server and Message Server
- Datastores
- Diagnostics Node