

Sprint Processing Operator for Orca (NRT)

Overview

The Sprint Operator course will teach you how to operate the Sprint processing system on a day to day basis when used in conjunction with an Orca system. The course provides an overview of the full system and through a hands-on approach utilising real-world data provides a practical and real-life experience in the system operation. The course introduces NRT and the real-time processing aspects of Sprint's integration with Orca using real-time scenarios.

Duration

A five day course primarily held at our Edinburgh training facilities. (09:30 ~ 17:00)
The course may be held at client premises, provided suitable facilities are available.

Who should attend

Navigators new to the industry with little or no seismic navigation experience, or others currently working in the seismic industry wishing to gain an understanding of the day to day operations of Sprint and NRT, in relation to Orca.

Objectives

The course will provide the skills and knowledge to operate Sprint for both 2D and multi-streamer 3D operations with the Orca navigation system.

Prerequisites

It is expected that the attendees should have some basic knowledge of geodesy, survey navigation and marine seismic operations. No prior knowledge of Sprint or NRT is required.

Teaching Methods

The course will be a mixture of lectures 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

- Process both 2D and 3D lines through to completion and output of the final P1/90
- Understand the basic operation and configuration of the principle modules of the Sprint system
- Carry out QC on all processed data
- Carry out data administration – data management (tapes, files), database backups and retrievals
- Interact with data in the NRT database while online
- Process data and update NRT database if there are problems with NRT

Course Content

Sprint Overview

- Introduction and overview of the system
- Principle Sprint modules and processing flow

Processing Data

- Creating configurations for each module from first principles
- Import and QC of raw data
- Modifying database information through Edit Survey
- Processing observations using gating, filtering, interpolation, and extrapolation
- Running Network Adjustments – configuring networks, unit variance, adjustment report and error detections
- Analysis – creating graphical configurations and control checking the data
- Exporting P1/90 files and P1/90 comparisons
- QC reporting – gun codes, shot reports, compass bias and positional verification
- Processing data from NRT database while online
- Reprocessing observations from NRT when re-importing the P2/94 file.

NRT (Near Real Time) Processing

- Introduction to NRT
- Differences between Sprint and NRT (processing and statistical analysis)
- Introduction to NRT qualifications

Data Logging

- P1/90 formats
- P2/94 formats

Data Administration

- Data management – writing to file/tape
- Database backup and retrieval

Basic Troubleshooting

- Common errors and problems during processing with Sprint and NRT