Reflex Operator

Overview
The Reflex Operator course provides an introduction to Reflex and the principles of binning. The course provides an overview of the system, and through a hands-on approach utilising real-world data, provides the skills and knowledge required to successfully operate the Reflex Binning System.

Duration
A three 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 binning using Reflex.

Objectives
The course will provide the skills and knowledge to operate the Reflex Binning System.

Prerequisites
It is expected that the attendees should have some basic knowledge of geodesy, survey navigation and marine seismic operations. Basic knowledge of the Linux command line is desirable. No prior knowledge of Reflex 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
- Understand the basic principles and processes of binning
- Process P1/90 data using Reflex
- Understand the basic operation and configuration of the principle modules of the Reflex system
- Carry out QC on all processed data
- Carry out data administration – data management (tapes, files), database backups and retrievals
- Backup a database
- Delete a database
Course Content

Overview
- Introduction and overview of the Reflex system
- Principles of binning
- Reflex process flow
- Reflex directory structure

Processing Data
- Creating configurations for each module from first principles
- Database Creation
- Bin Grid Definition and PSD Parameters
- Import and QC of P1/90 data
- Binning the Data
  - Bin Grid
  - Offset Distribution
  - Samples
  - Bin Expansion
- Analysing Coverage
  - Spatial Overlay
- Flex binning
- Data Edits
  - Deleting shots
  - Viewing the effects of edits
- QC Analysis
  - Graphical Analysis – Analyse module
  - Visualising Positions – Track Plot module
  - Reports

Data Management
- Database Size utility
- Database backups
- Deleting databases
- Processing Utilities
- Licence utilities
- Export data

Integration with Spectra
- Spectra Configuration
- Reflex Configuration