PetroSkills

Seismic Positioning Data Management - SPDM

COURSE

About the Course

The course will offer insight into geodetic considerations to ensure removal of geo-spatial data ambiguity using case studies of data acquisition, processing, data loading, and proposed well location selection. While both seismic navigation and trace data topics are covered, there is a greater focus on the geo-spatial component of trace data, with respect to navigation and positioning. Preservation of metadata and compliance to international standards in data exchange provide the integrity backbone to enhancing data quality and removing any ambiguity with respect to geo-referencing and legal ownership. Ensuring interpreters interpret and are not deviated from their activities by having to resolve mis-ties within the data is key to enhancing efficiency at a critical stage of the project cycle.

Target Audience

This course is aimed at a wide audience and will be of particular benefit to technicians, data loaders, and data analysts. Those involved with seismic data processing can preserve data quality and obtain geo-spatially accurate imaging of subsurface features by applying techniques covered in the course. Asset team members responsible for maintaining seismic data and data loading to interpretation workstations can enhance their processes by applying techniques covered.

You Will Learn

Participants will learn how to:

- Assess data quality and manage seismic trace and navigation data related to seismic data acquisition, processing and data loading
- Apply best practices to enhance and preserve data integrity and ensure seismic data sets are fit for purpose and do not contain geophysically significant errors
- Preserve metadata and maintain compliance with international standards for data exchange

Course Content

- Seismic navigation data principles
- Basic geodesy
- 2D data loading exercises
- Data quality control and practical examples thereof
- 2D data editing and exporting

- 3D bin grid data definitions and exercises for importing, analyzing, editing, and exporting
- Applied geodesy Introduction to EPSG database
- Trace data Licensing
- Acquisition
- Storage
- Import and quality assessment
- Formats and conversions
- Best practices

Product Details

Categories: Upstream

Disciplines: Data Management, Science and Analytics Geophysics

Levels: Foundation

Product Type: Course

Formats Available: In-Classroom

Instructors: PetroSkills Specialist