Training - Introduction to Data Management for Operations

DMOPE-EN-P | **Face-to-face only** | **3 days**

From the top floor to the drill floor it is frequently said that “data is an asset”. The purpose of this 3 days course is to illustrate: why data is an asset what are the main data types used in the E&P industry the data life circle various data storing strategies and implementations the data quality insurance and governance

Level

Awareness

Public

Technicians and decision makers of the drilling, construction, production and maintenance domain but out of the data-management discipline

Objectives

Attendees will be able to implement the following skills:

- Understand the data architecture of their organization
- Evaluate the quality of the data they consume
- Participate to the data quality improvement

Pedagogical & technical resources

Daily lecture and exercises and filed case studies

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners’ understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsable

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION — 0.25 day

The value of a data asset.
The main data categories for the drilling (FP), construction, reservoir, production, maintenance and HAS discipline.
The data management function as seen by DAMA.

DATA GOVERNANCE — 0.25 day

What is data governance, why it matters.

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The asset life cycle/the data life cycle.
The data shareholder, role and responsibility (RACI).
The role of the data stewards, data manager, data scientist...

DATA ARCHITECTURE MANAGEMENT USING THE DATA RELATED TO THE WELL DESCRIPTION — 0.25 day

What is a well (using the PPDM guideline), the importance of using a common vocabulary/semantic.
The CFIHOS IOGP data standard.
The energistic standards (PRODML, WITSML, RESQML).
The OSDU initiative.

DATA DEVELOPMENT — 0.25 day

Develop and maintain logical and physical data models for the production data.

DATA OPERATION MANAGEMENT — 0.25 day

The notion of SLA.
Cloud storage.
The notion of big data and data lake backups and archives.
Data visualization (incl. BI).
Data in a GIS.

DATA SECURITY MANAGEMENT — 0.25 day

Manage users (role, privileges...), monitor users authentication.
The information confidentiality classification.
Data security audit, introduction to ISO 27001.

REFERENCE & MASTER DATA MANAGEMENT — 0.25 day

Definition of both terms:

- Reference data: used taxonomy, semantic definition of the drilling data (e.g.: API).
- Master data: drilling data values.

Well data integration: the well UWI.

DATA WAREHOUSING — 0.25 day

Descriptive (content description) and transactional data.
Use case based on the management of spare part using SAP-PM and SAP-MM

DOCUMENT & CONTENT MANAGEMENT — 0.25 day

Unstructured data: e.g. the installation PIDs.
Implementing a Document Management Systems (EDMS).
Retention and disposition of document.

DATA QUALITY MANAGEMENT — 0.25 day

The different aspects of “Data Quality”.
Make the data “trustable”.
Lean and 6-sigma methodologies.
Define data quality metrics, measure and control the data quality.
Data audit.

PROFESSIONAL DEVELOPMENT OF DATA MANAGERS — 0.25 day

Data management as a recognized discipline.
How the oil companies digitalization journey impacts the data manager role.
Data managers in others industries.

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TAKEAWAYS

0.25 day

10 key points about data management to remember.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com

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