

# 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 cycle 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

## Responsible

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.

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 energetic 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.

## **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](mailto:referent.handicap@ifptraining.com)