

Training - E&P Data Architecture and Big Data



DMARCHI-EN-D



Distance only



3 days

The data architecture describes how data is structured. It is composed of policies, rules or standards that govern how data is stored and organized. The main existing architectures - SQL, graphs, NoSQL databases- will be presented and compared. As the O&G industry has been one of the pioneers in using massive data (big data), data architecture has now to evolve to handle big data

Level

Awareness

Public

Professionals from all O&G disciplines who plan to have responsibilities in the data management domain

Objectives

Attendees will be able to implement the following skills:

- Understand the various data bases architectures, with benefits/disadvantages
- Discuss architecture standards
- Identify and modify data architecture in their own company

Pedagogical & technical resources

Interactive lectures, case studies and exercises

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 TO DATA BASES ARCHITECTURE

TAXONOMY & ONTOLOGY, IMPORTANCE OF STANDARDIZATION

What is a well?

CFIHOS/JIP36 standardization project.

RELATIONAL DATABASES

ER diagrams.

SQL.

NOSQL DATABASES

GRAPH DATABASES

Cypher.

CONNECTION DATA TO BUSINESS

Data integration.

Data virtualization.

Data warehousing and BI tools.

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