# 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

## 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 TO DATA BASES ARCHITECTURE

### TAXONOMY & ONTOLOGY, IMPORTANCE OF STANDARDIZATION

What is a well?
CFIHOS/JIP36 standardization project.

### RELATIONAL DATABASES

ER diagrams.


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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.
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