Training - Introduction to artificial intelligence in the oil and gas industry

IAOG-EN-P

Face-to-face only

5 days

This 5-day training aims at providing participants with a solid foundation in machine learning concepts and techniques, with a focus on practical applications in the Oil & Gas industry. Participants will explore key 'Artificial Intelligence' approaches through a mix of theory and hands-on examples. They will then dive in extracting value from complex data and in selecting appropriate machine learning methods to real-world industrial challenges, while enhancing analytical thinking

Level

Awareness

Public

O&G professionals who want to have a clear understanding of Artificial Intelligence and a practical experience of how Machine Learning and data analytics could be applied to Oil and Gas industry

Objectives

Attendees will be able to implement the following skills:

- Describe the key concepts of machine learning and explain its value and applications in the Oil & Gas industry
- Differentiate between supervised and unsupervised learning approaches and identify appropriate techniques
- Apply key machine learning algorithms to solve practical problems
- Evaluate model performance and select the most suitable algorithm based on data characteristics and business objectives

Pedagogical & technical resources

Interactive courses 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

OVERVIEW OF MACHINE LEARNING — 0.5 day

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Utility in Oil and Gas.
Practical Example.

CLASSIFICATION — 1 day

Introduction.
KNN.
Decision Tree.
Random Forest.
Neural Network.

REGRESSION — 1.25 day

Introduction.
Linear regression.
Random Forest.
Neural Network.

CLUSTERING — 1.25 day

Introduction.
K Means.

DIMENSION REDUCTION — 1 day

Unsupervised neural network.
Practical Example.

Sessions

Rueil-Malmaison - From 11/16/2026 to 11/20/2026 — **3730 €/HT**

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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