

Petrogenium. Academy

Upstream (Geophysics)

**Multi-Physics Data Acquisition, Processing, and Interpretation
(previously Non-Seismic Data Acquisition and Processing)**

Consultant / Trainer

Jaap Mondt



With the **Petrogenium** (in collaboration with EPTS) **Multi-Physics Data Acquisition, Processing, and Interpretation (previously Non-Seismic Data Acquisition and Processing)** course, participants will gain a solid understanding of key geophysical methods and their modern applications. The course will cover the Earth's gravity field, how to identify and interpret anomalies, and how to estimate the depth and type of density variations while recognizing the limits of potential field resolution. Participants will also study the Earth's magnetic field, learning how to simplify its interpretation using techniques like reduction to the pole or equator and addressing non-uniqueness issues in magnetic data.



Participants

This **Petrogenium**. course aims at Geologists and Geophysicists involved in acquiring, processing and interpreting geophysical data for subsurface evaluation.



Learning Objectives

At the end of the course participants will have a good understanding what non-seismic data can add to the seismic information, and how to acquire, process, interpret such data in an integrated manner. They can better liaise and collaborate with staff in neighbouring Geoscience (sub)disciplines. It aims at providing conceptual understanding without going into mathematical detail. The course uses a mixture of lectures and practical exercises, complemented with some case histories.



Learning Objectives

Course content

The course aims at providing participants with the necessary foundation to be able to contribute to acquiring and processing Gravity, Magnetic and Electro-Magnetic data and to assess what value such data can add. Ways in which such data can be integrated together with seismic and how to avoid common pitfalls will be discussed as well.

The following topics are covered:

- Benefits and limitations of seismic data
- Gravity
- Magnetism
- Electromagnetics
- Controlled Source marine Electro-Magnetic methods (CSEM)
- Magneto-Tellurics (MT)
- Combining the various physical quantities in interpretation
- Industry and Participants case studies

5 Day Training

1. Benefits and limitations of seismic data
2. Gravity
3. Magnetics
4. Electromagnetics
5. Controlled Source marine Electro-Magnetic methods (CSEM)
6. Magneto-Tellurics (MT)
7. Combining the various physical quantities in interpretation
8. Industry and Participants case studies

Why select Petrogenium.?

The above support will be provided by principal consultants with 30+ years world-class experience in the technology and hands-on know-how from operation of refinery units.

Contact Petrogenium.:

Email: training@petrogenium.com

Website: <https://www.petrogenium.com/training/>

Because Experience Matters