



*Training Course:
Advanced Geological Modelling Techniques for
Professionals*

*5 - 9 July 2027
Kuala Lumpur (Malaysia)*

Training Course: Advanced Geological Modelling Techniques for Professionals

Training Course code: EN235280 From: 5 - 9 July 2027 Venue: Kuala Lumpur (Malaysia) - Training Course Fees: 6825 € Euro

Introduction

The Advanced Geological Modelling Techniques for Professionals program is designed to equip geoscientists and related professionals with the latest methodologies, tools, and insights in the field of geological modelling. As the demand for more accurate and comprehensive geological models increases across various sectors, including mineral exploration, petroleum geology, and environmental science, the ability to effectively create and interpret these models becomes crucial. This program aims to bridge the gap between basic geological modelling knowledge and the advanced skills required to tackle complex geological challenges using state-of-the-art software and data integration techniques.

Objectives

By the end of this training program, participants will be able to:

- Understand Advanced Modelling Tools: Gain proficiency in the latest geological modeling software, including their capabilities, application, and limitations.
- Apply Geostatistical and Quantitative Methods: Utilize advanced geostatistical techniques for data analysis and interpretation within geological models.
- Construct and Interpret Complex 3D Models: Develop skills to construct detailed 3D geological models, integrating various data types, including drillhole and geophysical data.
- Manage Uncertainty and Risk: Identify sources of uncertainty in geological models and apply risk assessment methodologies to inform decision-making.
- Apply Models Across Industries: Understand how to apply geological models to real-world problems in mineral exploration, hydrogeology, petroleum geology, and more.
- Stay Updated with Industry Trends: Be aware of the latest trends and emerging technologies in geological modelling to stay ahead in the field.

Target Audience

This program is tailored for a diverse range of professionals within the geosciences, including but not limited to:

- Geologists and Geoscientists: Professionals looking to deepen their expertise in geological modeling or update their skills with the latest tools and techniques.
- Mining Engineers and Petroleum Engineers: Engineers seeking to enhance their understanding of geological models to apply them in exploration, extraction, and resource estimation.
- Environmental Scientists: Professionals who utilize geological models to assess environmental impacts and support remediation and conservation efforts.
- GIS Specialists: Individuals specializing in geographic information systems interested in integrating GIS with advanced geological modeling for enhanced spatial analysis.

Training Program Outline

Day 1: Introduction to Advanced Geological Modelling

- Overview of Advanced Geological Modelling: Introduction to the latest trends, tools, and methodologies in geological modelling.
- Advanced Software Tools for Geological Modelling: Discussion on the capabilities and limitations of current geological modelling software.
- Integrating GIS and Remote Sensing Data: Techniques and benefits of incorporating GIS data and remote sensing imagery into geological models.

Day 2: Geostatistics and Quantitative Methods

- Advanced Geostatistical Techniques: Exploration of variogram interpretation, kriging, and stochastic simulation for geological variability characterization.
- Case Study Analysis: Examination of real-world applications of advanced geostatistics in geological studies.
- Quantitative Methods in Geological Modelling: Discussion on the application of quantitative methods to support geological interpretations and modelling decisions.

Day 3: 3D Geological Modelling

- Constructing 3D Geological Models: Strategies for building detailed 3D geological models, including dealing with complex geological structures.
- Integration of Drillhole Data: Overview of methods for integrating drillhole data into geological models for enhanced accuracy.
- Visualization and Interpretation of 3D Models: Discussion on advanced visualization techniques and how they facilitate the interpretation of geological models.

Day 4: Uncertainty Analysis and Risk Management

- Understanding Uncertainty in Geological Models: Examination of sources of uncertainty in geological modelling and approaches for quantification.
- Risk Assessment in Geological Modelling: Introduction to methodologies for conducting risk assessments based on geological models.
- Managing Uncertainty and Risk: Strategies for managing uncertainty and risk in geological modelling projects.

Day 5: Industry Applications and Future Trends

- Case Studies in Industry Applications: Analysis of how advanced geological modelling techniques are applied in mineral exploration, hydrogeology, petroleum geology, and other sectors.
- Integrating Geological Models with Other Disciplines: Discussion on the role of geological models in engineering, environmental studies, and decision-making processes.
- Future Trends in Geological Modelling: Panel discussion on emerging technologies, methodologies, and challenges in the field of geological modelling.

Registration form on the Training Course: Advanced Geological Modelling Techniques for Professionals

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