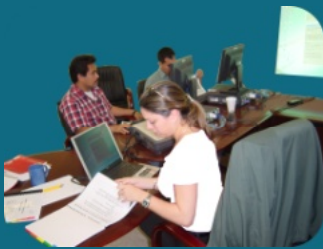




## Geovariances Training

# ASSESSING VOLUMETRICS UNCERTAINTIES WITH THE SIMULATIONS

3-day course



**Geovariances** offers a complete set of high quality training programs in petroleum geostatistics for beginners and experienced users.

**Geovariances** courses cover basic and advanced geostatistics and provide participants with plenty of hands-on practice with real oil reservoir data.

All courses are led by our highly experienced consultants.

**Geovariances** offers public courses around the world and throughout the year. Over the last 18 months, more than 250 trainees have participated in our training sessions.

Our consultants also provide in-house training and mentoring focused on your own needs.

**Isatis**, the geostatistical software solution from **Geovariances**, is regarded as the reference in petroleum geostatistics.

Leading Oil & Gas and consulting companies around the world rely on **Geovariances** and **Isatis** for genuine expertise in geostatistics.

### Objective

Geostatistical simulations are recommended for the calculation of GRV, HCPV and STOIP / GIIP, rather than using only a BTC scenario. The objective is to provide participants with a sound understanding of the main geostatistical simulation algorithms, involved when characterizing uncertainties during volumetric estimations.

### Key Features

The course emphasises the optimal use of wells and seismic data for generating a distribution of expected volumes and hydrocarbon reserves.

### Who should attend

Geologists and geophysicists involved in development decisions and risk analysis of reservoir volumetric and reserve evaluation. A basic understanding of geostatistics is required (variograms & kriging).

### Course content

This session covers the following topics:

- Why use a geostatistical simulation method to compute hydrocarbon reserves, rather than use an interpolation method such as kriging?
- General overview of geostatistical simulation methods.
- Pros and cons of geostatistical simulation techniques: Turning Bands and Sequential Gaussian.
- Integration of Seismic data during the simulation process: External Drift Simulation and Collocated Cosimulation.
- Accounting for the uncertainty of the OW and GO contacts.
- Determination of the spill point and its effect on the reservoir closure.
- How to account for uncertainties in the reservoir size and in petrophysical properties.
- Identification of optimistic, most - likely, and pessimistic scenarios.

### Prerequisites

Prior knowledge of basic geostatistic (variogram, kriging and cokriging) is recommended.

### On-line registration

<http://www.geovariances.com/en/oil-amp-gas-assessing-volumetric-uncertainties-with-the-simulations-co91>

### Contact

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