

GEOVIA Surpac Course Catalog India



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Surpac Foundation

Available Classroom and on-demand

Duration 5 Days

Level Fundamental (Basic)

Audience
New and existing users of GEOVIA Surpac. This introductory training course will give you the skills you need to perform common functions in the software and use it productively. It covers concepts and procedures that will allow the user to perform basic functions in the software, and will serve as a basis for more advanced training.

Objectives
Upon completion of this course, you will be able to accomplish the following:

- Install and license Surpac
- Customize Surpac's user interface
- Use basic components of the software for setting up and viewing data
- Understand data types, concepts and file structure
- Create new data for points, lines and surfaces
- Understand the concepts of surfaces and generate them
- Generate simple volume calculations between surfaces
- Display and create basic solids
- Create simple plots

Prerequisites
Before taking this course, you require the following:

- Knowledge of Microsoft, Windows, file management
- Knowledge of ASCII format files and Microsoft® Excel®

The Surpac menu structure and graphical user interface (GUI) are similar to most Windows-based packages and therefore a basic knowledge of the Windows operating system and environment is necessary.

Course Structure Flow

Introduction

- Introduction to Surpac and its functionality
- Components of the Surpac Window
- Working Directory in Surpac
- Concept of String, point and segments
- Opening and importing String files in Surpac
- Creating and editing string files in Surpac
- String file structure
- Displaying String file data
- Styles in Surpac
- Editing and customizing styles
- Range concept in Surpac
- Revision

DTM Surfaces

- Concept of DTM(the 2D surface)
- Displaying DTM in Surpac
- Triangles in DTM
- Creating DTM (graphical and file based method)
- Application of DTM's – sections (center line and section axis line)
- Contouring (by DTMs and by Strings)

- Clipping (between two DTMs and by string)
 - Editing the string file to get the desired DTM for volume calculation and other DTM application
 - Volume Calculation methods in Surpac
 - Revision
- Geological Database
- Concepts and structure of geological database
 - Creating geological database
 - Importing data into geological database (from CSV files)
 - Displaying drill holes from database with collar, assay and geology data
 - Audit database and several reports from geological database
 - Section Preparation from drill hole data
 - Statistical report and linear regression report from geology database
 - Compositing concepts
 - Downhole compositing in Surpac
 - Statistical report of compositing
 - Geostatistics and domain based compositing (within lithology)
 - Revision
- Solid Modelling
- Concepts of object and trisolation
 - Creating a solid from geological sections by using different tools
 - Validating solids and rectifying errors
 - Application of solid modelling (sections, volume calculations, intersections)
 - Revision
- Block Modelling
- Concepts of block modelling
 - Concepts of constraints and attributes
 - Partial percentage and assign value function in block model
 - Displaying block models and color coding
 - Estimation of grades
 - Creating report from block models
 - Creating slice plans
- Pit Design
- Pit design concept
 - Basic input parameters for pit design
 - Creating a pit design with different tools
 - Revision
- Plotting
- Plotting functions (vector and raster images)
 - Autoplot
- Advanced Tools
- Recording a macro

Surpac Advanced

Available Classroom and on-demand

Duration 5 Days

Level Intermediate to Advanced

Audience Existing Surpac users

Description This advanced training course will give you the skills you need to perform critical functions in the software and use it productively. It covers concepts and procedures that will allow the user to perform short term and long term production scheduling.

Objectives At the completion of the course, you will have been exposed to the following topics and concepts:

- Validation of Geological Model
- Geostatistics
- Advanced tool for Solid Modelling
- Different Estimation methods
- File based plotting

Prerequisites Before taking this course, you require the following:

- Knowledge of Microsoft, Windows, file management
- Knowledge of ASCII format files and Microsoft® Excel®

The GEOVIA Surpac menu structure and graphical user interface (GUI) are similar to most Windows-based packages and therefore a basic knowledge of the Windows operating system and environment is necessary. You will also need to understand Surpac introductory concepts and geological modules.

Course Structure Flow

- String and DTM
 - Maths & expressions
 - Classification of strings
 - 2D & 3D transformations
 - Lat/Long transformations
 - Image Draping
 - Contouring by triangulation method
 - Drill hole DTM intersection
- Geological Database
 - Create user defined tables and fields
 - Expressions in fields
 - Extract sections for plotting and plot the same
 - Different types of compositing
- Solid Modelling
 - Control string
 - String morphing
 - Intersection of solids and DTMs
 - Section and slices of solids
 - Outersect, intersect & union solids
- Geostatistics
 - Domains
 - Histogram analysis
 - Trend analysis
 - Removing outliers

- Concept of Variograms
- Variogram Mapping
- Variogram Modelling
- Determining estimation parameters
- Variogram validation

Estimation

- IDW
- Kriging
- Interpolator

Engineering

- Multi-bench design
- Slope method: descriptions
- Slope method: slope strings
- All cut ramps & berm crossing characteristics
- Road Design
- Drill & Blast Design

Plotting

- Customization of Sheet size
- Customization of Grids
- Customization of Drawing area
- Customization of Border
- Customization of Title block
- Entity: customized lines
- Entity: cliff symbols
- Processing of Map
- Revision Queries & clarifications

Registration Form

**PLEASE RETURN THIS FORM VIA EMAIL:
GEOVIA.INTRAINING@3DS.COM**

If you have any questions please contact us at +91 33 4030 2600.

COURSE DETAILS

Course Name: _____ Date: _____

Location: Kolkata, India Other (please specify): _____

CONTACT DETAILS

Company Billing Name: _____

Address: _____ City: _____

State: _____ Postal Code: _____

Telephone: _____ Fax: _____

Email: _____ Website: _____

DELEGATE DETAILS

#	FIRST NAME	LAST NAME	TECHNICAL ROLE	EMAIL ADDRESS	PHONE NUMBER
1					
2					
3					
4					
5					
6					

Dietary restrictions/food allergies: _____

Please provide any additional delegate requirements: _____

Registration Form

PAYMENT AMOUNT

Please enter the total amount payable for all registrations:

Total (including tax): INR _____

PAYMENT OPTIONS

Electronic Funds Transfer (bank details will be provided on receipt of this registration form).

PLEASE SELECT

How did you find out about this course?

GEOVIA Website Email Campaign Technical Support Other (please specify): _____

TERMS & CONDITIONS

1. An online fund transfer (NEFT) must be provided to confirm your registration.
2. Cancellation policy: 14 days or more from the training date: no cancellation fee applies.
Less than 14 days from the training date: a cancellation fee of 100% applies.
3. Substitution of attendees is permitted prior to the commencement of the course.
4. Cancellations and/or substitutions must be advised in writing.
5. GEOVIA reserves the right to postpone or cancel courses, and shall not be liable for any costs incurred by the delegates.

ACCEPTANCE

By completing and submitting this registration form you agree to the terms and conditions outlined above and confirm that all delegates meet the course prerequisites as stated in the advertised course outline.

