

GEOVIA Surpac™ Foundation (5 days)



The GEOVIA Surpac™ Introduction course is a course designed for all new users of Surpac, and for those wishing to refresh their knowledge. It covers concepts and procedures that will allow the user to perform basic functions in the software, and will serve as a basis for good working methodology and processes in Surpac.

COURSE PREREQUISITES

- Background in mining, surveying or geological sciences
- Knowledge of file management
- Knowledge of ASCII format files and Microsoft® Excel®
- Basic knowledge of the Windows operating system and environment is necessary, as the Surpac menu structure and graphical user interface (GUI) are similar to most Windows-based packages.

- Creating orthogonal section planes
- Generate volume calculations from surfaces and solids
- Display drill holes and set styles
- Display block models, using constraints
- Create plots
- Create simple macros

If a desired expected outcome is not listed above please contact GEOVIA Training for a detailed list of course deliverables and to discuss tailored training

EXPECTED OUTCOMES

Upon completion of this course, users will:

- Install and license Surpac
- Understand the fundamental concepts of the software
- Customize the interface to user preferences
- Use the available visualization and CAD tools to import, create, edit and display data
- Create points, lines, surfaces and solids
- Use data mathematical manipulation tools
- Interact with surfaces

COURSE STRUCTURE FLOW

Concepts	Topics
Overview	Software and licensing
	The Surpac interface
	Accessing help
	Saving your project settings and profiles
	Setting up customized icons and shortcuts
	Recommended project folder configuration

Data display and management	Displaying different data types
	String, segment, point and object properties
	String concepts and file structure
	Managing data in layers
	Isolating and selecting data
	Export and import files
	Change and customize display styles for points, lines and triangulations
Data creation and edition	Creating new points
	Basic line digitizing techniques
	Creating a grid
	CAD edition tools
File operations	String summary/directions
	String maths
	Applying boundary strings
	Classifying strings
	Coordinate transformations
	Boolean operations with polygons
Surface modeling and operations	DTM surface concepts and rules
	Data preparation
	Creating surfaces
	Operations with surfaces
	Simple Contouring tools

	Image draping
	Volume calculations
Solids modeling	Solids concepts
	Creating and editing solids
	Solid validation
	Volume reports
Data sectioning and planes	Creating standard orthogonal section planes
	Use planes to display and create data
Plotting	Plotting concepts
	Title block, border and plot sheet setup
	Plotting entities and styles
	Creating plots for different data types
	Formatting plot files
Presentation tools	Create animation / fly through
	Export Surpac data for presentation
Displaying drillholes	Displaying drillholes
	Constraining drillhole displays
Displaying Block model	Block model visualization
	Creating/applying constraints (foundation)
Workflow automation	Create simple macros to automate repetitive tasks
Open session	Open discussion and Q&A session
Exam	Exam

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