GEOVIA Surpac Course Catalog Indonesia

Surpac for Engineers

Available	Classroom and on-demand
Duration	5 Days
Level	Fundamental
Audience	The GEOVIA Surpac for Engineers five-day course is designed for engineers who are either new to Surpac's engineering module or would like to refresh their skills on concepts in engineering. The course will provide users with a good understanding of using Surpac.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Install and license Surpac • Customize the interface and icons • Use the basic components of the system for setting up and viewing data • Understand the 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 • Displaying block models • Block model reporting • Section for block model • Pit design fundamentals • Plotting • Display and create basic solids
Prerequisites	Before taking this course, you require the following: • Knowledge of Windows® 2000, XP, Vista® or Windows 7 Operating System • Knowledge of 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	Overview • Software installation and licensing • Surpac concepts (and data types) • The Surpac interface (graphics) • Forms and help Organizing your data • Recommended project folder configuration • Managing data in layers • Saving your project settings into profiles • Setting up customized icons and shortcuts Working with data • String, segment and point information • String concepts and file structure • Object properties • Using the selection and orbiting tool • Displaying your data • Styles for strings • Editing data

Create menu
- Creating new points and gradients
- Basic digitizing techniques
- Creating a grid
- Breaklines and file preparation
- Normalizing the data
- Creating DTMs
- Intersection
- Contouring
- Extracting sections under a surface
- Draping
- Reporting volumes
- Cut and fill
- Cutting planes
- Viewing data on planes

File tools menu
- String summary / change string directions
- String maths
- Applying a boundary string
- Classifying strings
- Polygon intersections

Surfaces
- DTM concepts
- Breaklines and file preparation
- Normalizing the data
- Validating

DTM modelling
- Creating and sectioning DTMs
- Generating volumes
- Contouring
- DTM trimming
- Color DTM functions
- Draping (strings and imaged)

Plotting
- Basic autoplot
- Plot sheet setup

Block model setup
- Block modelling concepts

Creating a block model
- Attributes
- Creating attributes

Constraints, displaying, sectioning, plotting, creating
- Creating / applying constraints graphically
- Display / colouring a model by any single attribute type

Estimations
- Search ellipsoid parameterization and viewer
- Inverse distance
- Partial percentages using constraints

Reporting
- By elevations
- By geometric groupings

Daughter block models
- Constrained block models.
- Creating a sub model from a parent model

Open pit design overview
- Concepts
- Basic design tools

Working with drillholes
- Defining colour profiles and drillhole display profiles
- Opening drillhole data into the graphical area
- Creating sections and plan views
- Viewing data on sections and plan views

Open pit design
- Setting up ramps

- Slope design
- Designing a switchback
- Designing to a DTM

Waste dump design

- Designing a waste dump
- Autoplot
- Entities
- Plotting sheet set up

Surpac for Geologists	5
Course Code	N/A
Available	Classroom and on-demand
Duration	5 Days
Course Material	Printed Manual
Level	Fundamental
Description	The GEOVIA Surpac for Geologists five-day course is designed for geologists who are either new to Surpac's geology module or would like to refresh their skills on concepts in geology. The course will provide users with a good understanding of using Surpac.
Objectives	At the completion of the course, you will have been exposed to the following topics and concepts: • Install and license Surpac • Customize the interface and icons • Use the basic components of the system for setting up and viewing data • Understand the data types, concepts and file structure • Understand the geology data types and concepts • Display drillhole data and block models • Perform various functions within Surpac's drillhole • database module • Create different types of drillhole and bench • composites • 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 • Perform grade control calculations from blast polygons • Create sections for drillholes • Create various types of drillhole sections and plan plots • Basic resource estimation • Sectional interpretation
Prerequisites	Before taking this course, you require the following: • Knowledge of Windows® 2000, XP, Vista® or Windows 7 Operating System • Knowledge of file management • Knowledge of ASCII format files and Microsoft® Excel®

Course Structure Flow	Overview
	• Software installation and licensing
	• Surpac concepts (and data types)
	• The Surpac interface (graphics)
	• Forms and help
	Organizing your data
	• Recommended project folder configuration
	• Managing data in layers
	• Saving your project settings into profiles
	• Setting up customized icons and shortcuts
	Working with data
	• String, segment and point information
	• String concepts and file structure
	• Object properties
	• Using the selection and orbiting tool
	• Displaying your data
	• Styles for strings
	• Editing data
	Create menu
	• Creating new points and gradients
	• Basic digitizing techniques
	• Creating a grid
	• Breaklines and file preparation
	• Normalizing the data
	• Creating DTMs
	• Intersection
	• Contouring
	• Extracting sections under a surface
	• Draping
	• Reporting volumes
	• Cut and fill
	• Cutting planes
	• Viewing data on planes
	File tools menu
	• String summary / change string directions
	• String maths
	• Applying a boundary string
	• Classifying strings
	• Polygon intersections
	Surfaces
	• DTM concepts
	• Breaklines and file preparation
	• Normalizing the data
	• Validating
	DTM modelling
	• Creating and sectioning DTMs
	• Generating volumes
	• Contouring
	• DTM trimming
	• Colour DTM functions
	Draping (strings and imaged)
	Plotting
	• Basic autoplot
	• Plot sheet setup
	Geology Database
	• Database concept
	• Importing data
	• Mapping the database
	Database mapping
	• Connect to an existing Access database
	Database creation
	• Create a new database
	Updating databases
	• Load survey, assay and geological data
	Database administration
	• Create new tables / fields
	Database auditing
	• Validating imported data
	• By geometric groupings
	Displaying and manipulation of drill holes
	• Drillhole display in graphics
	Creation of styles for drill holes
	• Display properties of drillholes
	Drill hole interrogation and investigation
	• Identify drill holes and editing drillholes
	Displaying data in section
	• Extract, display and colour drill sections
	Plotting sections
	• Produce multiple sections
	Sectional interpretation
	• Digitizing ore on selection
	Compositing data

- Compositing data; downhole, by grade, by geology, by graphical selection

Database reporting
- Flagging data within geological zones

Basic statistics
- Produce histograms and probability plots
- Determine single / mixed population
- Calculate and apply a cut grade

Block model setup
- Block modelling concepts
- Creating a block modelAttributes
- Creating attributes

Constraints, displaying, sectioning, plotting, creating
- Creating / applying constraints graphically
- Display / colouring a model by any single attribute type

Estimations
- Search ellipsoid parameterization and viewer
- Inverse distance
- Partial percentages using constraints

Reporting
- By elevations
- By geometric groupings

Daughter block models
- Constrained block models.
- Creating a sub model from a parent model

Surpac for Surveyors	8
Course Code	N/A
Available	Classroom and on-demand
Duration	3 Days
Course Material	Printed Manual
Level	Fundamental
Audience	Surveyors
Description	The GEOVIA Surpac for Surveyors three-day course is designed for all new Surveyors. It covers concepts and procedures that will allow the user to perform basic functions in the system, and will serve as a basis for good survey processes in Surpac.
Objectives	At the completion of the course, you will have been exposed to the following topics and concepts: • Install and license Surpac • Customize Surpac • Use the basic components of the system for setting up and viewing data • Understand the data types and concepts • Learn how to create and display a survey database • Create new data for points, lines and surfaces • Create and validate DTMs and solids • Generate simple volume calculations between surfaces and within solids • Create simple plots
Prerequisites	Before taking this course, you require the following: • Knowledge of Windows® 2000, XP, Vista® or Windows 7 Operating System • Knowledge of 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	Overview
	• Software installation and licensing
	• Surpac concepts (and data types)
	• The Surpac interface
	• Forms and help
	Organising your data
	• Recommended project folder configuration
	• Managing data in layers
	• Saving your project settings into profiles
	Working with data
	• String, segment and point information
	• String concepts and file structure
	• Object properties
	• Using the selection and orbiting tool
	• Displaying your data
	• Editing data
	Styles
	• Creating your own styles for strings and points
	• DTMs and 3DMs
	Create menu
	• Creating new points and gradients
	• Basic digitising techniques
	• Creating a grid
	Maths functions
	• Applying expressions to data
	Surfaces
	• DTM concepts
	• Breaklines and file preparation
	• Normalizing the data
	• Creating DTMs
	• Intersection
	• Contouring
	• Extracting sections under a surface
	• Draping
	• Reporting volumes
	• Cut and fill
	Solids modelling
	• Use the different methods to create a solid
	• Validate solids
	• Edit solids
	Sections and planes
	• Interactive method
	• Cutting planes
	• Viewing data on planes
	File tools menu
	• String summary and directions
	• Applying a boundary
	• 2D transformation
	Survey database
	• Create a database
	• Importing text files
	• Displaying database
	Plotting
	• Autoplot
	• Plot sheet setup
	• Advanced tools
	• Recording a macro

9