

## **GEOVIA Whittle™ Strategic Mine Planning Foundation (3 days)**



The GEOVIA Whittle™ Foundation Course is designed for new users of Whittle to learn practical applications. It provides a basic understanding of pit optimization and strategic mine planning principles using Whittle.

### **COURSE PREREQUISITES**

- Knowledge of file management
- Understanding of ASCII format files and Microsoft® Excel®
- Good knowledge of block modeling concepts and functionality in GEOVIA Surpac™, GEOVIA GEMS™ or another mine planning package
- Exposure to surface mining practices and terminology
- Basic knowledge of the Windows operating system and environment is necessary as the Whittle menu structure and graphical user interface (GUI) are similar to most Windows-based packages.

### **EXPECTED OUTCOMES**

Upon completion of this course, users will:

- Understand the main principles of pit optimization and strategic mine planning
- Import block model files and produce optimized pit shells
- Produce basic life of mine (LOM) schedules using manual and automatic scheduling tools. Apply spatial and economic constraints to evaluate alternative what-if scenarios

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.

## COURSE STRUCTURE FLOW

Concepts	Topics
Introduction to strategic mine planning	Fundamental concepts
	Resource and reserve definition
	Economic evaluation principles
Principles of pit optimization	Pit optimization algorithms
	Slope angles and arcs
	Block value
	Costs and revenue factors
Data preparation	Block model requirements
	Mod file structure
	Validate and import a mod file
	Block model reblocking
Generating optimized pit shells	Creating and assigning slope profiles
	Creating nested pit shells
	Creating directional pit shells
	Selecting ultimate pit and interim mine phases
	Exporting optimization data and results
Creating a life of mine schedule	Building a cost model
	Basic sequencing and scheduling
	Exporting scheduling data and results
Practical session	Final exercise/exam
Open session	Open discussion and Q&A session

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