

# GEOVIA GEMS FOUNDATION FOR ENGINEERS (3 DAYS)

GEOVIA GEMS™ Foundation for Engineers is a comprehensive three-day course designed to provide users with a foundation in engineering concepts in GEMS for Open Pit mines. The course covers essentials like creating lines, creating surfaces and solids, calculating volumes, displaying block models, blast pattern design and plotting. This course is also suitable as a foundation for surveyors.

Please note, the course only covers the basic of block modelling and does not include interpolating grade values.

## COURSE PREREQUISITES

Before taking this course, you require the following:

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

The GEMS 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.

## EXPECTED OUTCOMES

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

- Create and modify plan views and vertical sections

- Create lines, surfaces, and solids using a variety of methods
- Calculate volume, tonnes, and grades from the block model using surfaces and solids
- View block model data
- Make simple changes to the block model in order to allow the model to be used for mine design and planning purposes (e.g.: create zones in the model designating different pit slope areas, etc.)
- Create surface blast pattern layouts and store them in GEMS
- Create and annotate ad-hoc plots
- Create and use plot templates for common engineering plotting scenarios such as weekly maps, drill plans, etc.
- Importing and exporting blast holes, points, lines, surfaces, solids, and block models

If a desired expected outcome is not listed above, please contact us to learn more about how we can tailor training to meet your needs.

## FOR MORE INFORMATION AND REGISTRATION

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More courses: [www.3ds.com/GEOVIA/Training](http://www.3ds.com/GEOVIA/Training)

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