

GEOVIA GEMS Course Catalog Africa



3DEXPERIENCE®

Contents

GEMS Foundation.....	3
GEMS Geology Modelling.....	4
GEMS Open Pit Mine Design.....	5
GEMS Underground Mine Desing.....	6

GEMS Foundation	
Course Code	N/A
Available	2016
Duration	3 days / 24 Hours
Course Material	English
Level	Foundation
Audience	New Users
Description	This course covers basic data base management concepts, data entry and editing, drillhole, point, polyline, and triangulation display, report generation, and data manipulation, filtering, basic 3D modelling of surfaces and solids and plotting using Plotmaker.
Objectives	<p>Upon completion of this course, you will be able to accomplish the following:</p> <ul style="list-style-type: none"> • Create a new project in GEMS • Customise your graphical area to suit your working needs • Create, add and modify workspaces • Set up profiles for all parameters in the system • Add and modify section views • Load and display data in the graphical work are • Filter and manipulate data in the workspace • Plotting data • Use Plotmaker to define specific plot styles
Prerequisites	<p>Before taking this course, you require the following:</p> <ul style="list-style-type: none"> • Knowledge of windows and operating systems • Knowledge of file management • Knowledge of ASCII format files and Microsoft® and Excel®
Available Online	No

GEMS Geology Modelling

Course Code	N/A
Available	2016
Duration	3 days / 24 Hours
Course Material	English
Level	Intermediate
Audience	Geological Professional
Description	<p>The focus is on geological modelling principles and modeling techniques. It covers a variety of methods to model different orebody types and country rock environment, utilizing polylines, drillholes, surfaces and solids. Some aspects of resource evaluation and reporting will be discussed.</p>
Objectives	<p>Upon completion of this course, you will be able to accomplish the following:</p> <ul style="list-style-type: none"> • Create and manage triangulation workspace • Utilize polyline tools to interpret and model their deposit • Create new solids using one set of rings and tie lines, or two sets of geological rings • Create folded surfaces using two sets of lines • Report analytical volumes of solids and perform validity checking • Define solid profiles, and apply different profiles to individual solids
Prerequisites	GEMS Foundation course, as well as strong understanding of polyline concepts and CAD tools.
Available Online	No

GEMS Open Pit Mine Design

Course Code	N/A
Available	2016
Duration	2 days / 16 Hours
Course Material	English
Level	Intermediate
Audience	Mine Engineers
Description	<p>This course is designed for mine engineers who are responsible for activities required to design and manage pit designs. Such activities include designing pits, ramps, pit pushbacks and dumps. In addition to these activities, other mine engineering tasks such as volumetrics of ore concentrate stockpiles within the pit design will be investigated.</p>
Objectives	<p>Upon completion of this course, you will be able to accomplish the following:</p> <ul style="list-style-type: none"> • Assign parameters to design that define berm width, pit slope angle, and batter angle. • Create a surface triangulated irregular network, or surface tin, from the pit design. • Create final pit designs complete with toes, crests, ramps, switchbacks, and slots • Obtain volumes, tonnages and grades reported by bench, rock type, and grade range from the pit design.
Prerequisites	<p>Before taking this course, you require the following:</p> <ul style="list-style-type: none"> • Knowledge of Windows® 2000, XP, Vista® or Windows 7 Operating system • Knowledge of file management • Knowledge of ASCII format files and Microsoft® Excel® • GEMS Foundation Course • A strong understanding of polyline concepts and CAD tools.
Available Online	No

GEMS Underground Mine Design

Course Code	N/A
Available	2016
Duration	4 days / 32 Hours
Course Material	English
Level	Intermediate
Audience	Underground Engineers
Description	This course comprises several separate courses that include solids modelling, volumetrics, mine design using the tunnel module and underground Blast design.
Objectives	<p>Upon completion of this course, you will be able to accomplish the following:</p> <ul style="list-style-type: none"> • Build engineering solids (e.g. stopes). • Mine design using the GEMS Tunnel module to design underground development. • Use the ramp design module to design ramps • Compare design vs. actual of the development. • Run volumetrics reports to calculate resource and reserves. • Design underground blast rings and generate drilling and charging reports.
Prerequisites	<p>Before taking this course, you require the following:</p> <ul style="list-style-type: none"> • Successful completion of GEMS Foundation course
Available Online	No

