DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

Course Catalog

GEOVIA EMENA

2017

3DEXPERIENCE®

GEOVIA EMENA

Training Courses

Dassault Systèmes offers a wide range of GEOVIA training courses designed to suit all levels of mining professionals, from Geologists and Engineers through to Technical and Project Managers. Whether you're an experienced user or just starting out in your career, our training courses will enable you to get the most out of your GEOVIA products.

Onsite – Customised Training for your mining operation

We are often asked to conduct training onsite for many of our clients - where groups of users requiring training make this a cost effective training solution. If you would like customized onsite training tailored to your operation's needs, please contact us at GEOVIA.EU.Training@3ds.com to arrange a quote. As well as training services, Dassault Systèmes can help your mining operation with geology, engineering, planning and operational support services.

Please contact us for more information or to discuss your onsite training requirements.

Classroom Training – Available in UK

Our Classroom Training courses are conducted at Dassault Systèmes UK Head Office in Coventry.

The date and location of each Classroom GEOVIA training course **is determined by market demand and the number of interested registrants.**

To express your interest for a particular classroom course in this catalog, please **click here** or email: GEOVIA.EU.training@3ds.com (please include the training course title you are interested in, in the subject line).

We will contact you straightaway to discuss your requirements and advise when your course will be run.

GEOVIA EMENA

Surpac Introduction	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Fundamental
Audience	*Designed for New Users*
Description	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.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Install and license Surpac • Understand the fundamental concepts of the software • Customise the interface to user preferences • Use the available visualisation and CAD tools to import, create, edit and display data • Create points, lines and surfaces • Use data mathematical manipulation tools • Interact with surfaces • Generate volume calculations from surfaces • Create simple plots
Prerequisites	Before taking this course, you require the following: • Background in mining, surveying or geological sciences • 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.

Surpac Geology Tools	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Fundamental & Intermediate
Audience	Designed for New & Existing Users
Description	It focuses on geological concepts and processes within the software. The course will provide users with an understanding of modelling methods that can be applied by geologists in their everyday work.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Understand data types and concepts involved in geological modelling tasks • Create and manage geological drillhole databases • Import, analyse and report information from geological drillhole databases • Display and interact with drillhole databases • Perform simple grade control calculations from polygons • Interpret data on section to model effectively • Create, edit and report volume of solids • Create, display, populate and report block models • Create drillhole and bench composites • Perform grade control calculations from blast polygons • Create plots • Create sections for viewing all data types • Interpret data on section to model effectively • Solid modelling and editing • Basic resource estimation
Prerequisites	Before Before taking this course, you require the following: • Knowledge of file management • Knowledge of ASCII format files and Microsoft® Excel® • Knowledge of geological science 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.

Surpac Surface Engineering Tools	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	4 days
Course Material	English
Level	Fundamental & Intermediate
Audience	Designed for New & Existing Users
Description	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.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Use the suite of CAD and automatic design tools to create complex pit, waste dump, dam, and ramp designs • Apply spatial, economic and geological constraints into the design process • Create advanced in-situ mineral reserve reports • Produce fully engineered surface road designs • Design and report comprehensive production and ramp development blast hole layouts including pre-split or smooth blasting holes • Produce detailed bench cut and blast layout plans • Automate repetitive tasks to increase efficiency
Prerequisites	Before taking this course, you require the following: • Good understanding of basic Surpac concepts and functionality including: a. Data display and management b. String files c. CAD tools d. DTM surfaces e. Block modelling f. Plotting • Knowledge of ASCII format files and Microsoft® Excel® • Previous exposure to the surface mining / quarrying industry

Surpac for Industrial Minerals	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	5 days
Course Material	English
Level	Intermediate & Advanced
Audience	Designed for Existing Users - geologists, mining engineers and quarry managers
Description	The course will provide users with a good understanding of how Surpac tools can be applied to perform common geological and engineering tasks in a quarrying operation.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Visualise and report geological and quarry design information • Import, manipulate and report drillhole information • Complete fundamental geological modelling tasks • Create and estimate resource block models • Generate basic quarry designs • Produce comprehensive plots for geological and quarry design data
Prerequisites	Before taking this course, you require the following: • Good understanding of basic Surpac concepts and functionality including: a. Data display and management b. String files c. CAD tools d. DTM surfaces e. Plotting • Knowledge of file management • Knowledge of ASCII format files and Microsoft® Excel® • Background in geological sciences or mining engineering • Exposure to the industrial minerals sector

Surpac Advanced Resource Estimation and Geostatistics	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	4 days
Course Material	English
Level	Advanced
Audience	Designed for Existing Users – Resource Geologists
Description	The course is for resource geologists who want to become familiar with resource estimation and classification techniques. It includes drillhole database management, compositing, geostatistical analysis, variography, block modelling and estimation methods (nearest neighbour, inverse distance, kriging and indicator kriging). This course will also explore different methods of categorising and reporting resources.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Understand importance of geology and domaining • Appreciate volume-variance effect • Advanced data validation and analysis techniques • Comprehension of variography • Understanding of different methods of estimation, including inverse distance and the various applications of kriging • Model validation and practical resource classification techniques
Prerequisites	Before taking this course, you require the following: • Good understanding of basic Surpac concepts and functionality including: a. Data display and management b. String files c. DTM surfaces d. Solids modelling e. Block modelling • You must be comfortable working with the Surpac Database and Block Model components

MineSched Surface Mine Scheduling	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Fundamental
Audience	Designed for surface mine planners who are new users of MineSched.
Description	The course provides an understanding of the way that MineSched works and the concepts which drive the software. During the course students will learn how to setup basic tactical schedules for surface mining operations as well as how to modify and refine them.
Objectives	Upon completion of this course, you will be able to: • Comprehend the fundamental concepts of MineSched • Define a suitable file management structure for MineSched schedules • Prepare, check and validate input data • Setup and run a basic surface mine schedule • Define and manipulate material movement streams • Set quality targets and material ratios • Use the animation and reporting tools to validate schedules • Output schedule results • Use the help resources
Prerequisites	Before taking this course, you require the following: • Exposure to surface mining methods and planning practices • Good knowledge of block modelling and surface mine design functionality in GEOVIA Surpac™, GEMS™ or any other mine planning package • Knowledge of Windows® Operating Systems • Knowledge of file management, ASCII format files and Microsoft® Excel®

MineSched Underground Mine Scheduling	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Fundamental
Audience	Designed for underground mine planners who are new users of MineSched.
Description	The course provides an understanding of the way that MineSched works and the concepts which drive the software. During the course students will learn how to setup basic tactical underground mine schedules as well as how to modify and refine them.
Objectives	Upon completion of this course, you will be able to: • Comprehend the fundamental concepts of MineSched • Define a suitable file management structure for MineSched schedules • Prepare, check and validate input data • Setup and run a basic underground mine schedule • Define and manipulate material movement streams • Set quality targets and material ratios • Use the animation and presentation tools to validate schedules • Output schedule results Use the help resources
Prerequisites	Before taking this course, you require the following: • Exposure to underground mining methods and planning practices • Good knowledge of block modelling and underground mine design functionality in GEOVIA Surpac™, GEMS™, Minex™ or any other mine planning package • Knowledge of Windows® Operating Systems • Knowledge of file management, ASCII format files and Microsoft® Excel®

Whittle Foundation	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Fundamental
Audience	Designed for new users of Whittle.
Description	The course provides a basic understanding of pit optimisation and strategic mine planning principles as well as their practical application using Whittle software.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Understand the main principles of pit optimisation and strategic mine planning • Import block model files and produce optimised 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
Prerequisites	Before taking this course, you require the following: • Knowledge of file management • Understanding of ASCII format files and Microsoft® Excel® • Good knowledge of block modelling concepts and functionality in GEOVIA Surpac™, GEOVIA GEMS™ or another mine planning package • Exposure to surface mining practices and terminology

Whittle Advanced Strategic Planning	
Course Code	N/A
Available	On-site or UK Classroom on demand
Duration	3 days
Course Material	English
Level	Advanced
Audience	Designed for experienced users of Whittle who want to take their knowledge to the next level.
Description	The course will focus on the advanced scheduling techniques available in Whittle that can add further value to your project. Structured in a workshop format, it features lots of hands-on training using the software to solve real-world mine planning problems. There will be opportunities to network and interact with our experts and your peers to discuss helpful tips and techniques to use in your projects.
Objectives	Upon completion of this course, you will be able to accomplish the following: • Create realistic schedules honouring practical mining constraints and limits • Improve the value of mining projects through strategic scheduling • Use Whittle to determine when and where it is best to transition from an open pit to an underground mine • Use Mineral Resource classification and/or NSR attributes • Define cut-off grade and stockpile strategies to enhance the value of the project • Reduce the effects of deleterious elements on processing using pre-process blending • Use blending techniques to reduce the amount of sub-grade ore that is not processed
Prerequisites	Before taking this course, you require the following: • Knowledge of file management • Knowledge of ASCII format files and Microsoft® Excel® • Knowledge of block modelling functionality in GEOVIA Surpac, GEMS or another mine planning package. • Solid understanding of Whittle basic concepts and functionality including: a. Importing block models b. Creating slope sets c. Theory and practical application of using costs, prices, and limits in Whittle d. Creating multiple final pit and pushback options using revenue factors to vary price


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