



Course ID: 12d – 1A

One Day – Introduction to 12d Model Software

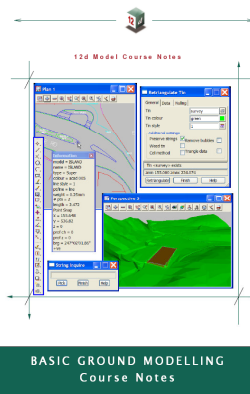
Summary:

This course introduces people to the use of 12d Model and its concepts for Civil, Rail, Drainage and Surveying work.

Prerequisites:

No experience in 12d Model is necessary but basic computer skills are required.

Course Contents:



Basic Ground Modeling

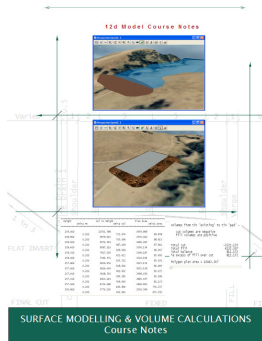
Training starts from the basic use of strings to model ground surfaces, and develops the concepts of computerised digital terrain modelling using 12d Model.

This course is ideal for all who need an understanding of ground modelling using 12d Model, but who do not necessarily have a need for road design skills.

Participants will learn to:

- Navigate in 12d Models graphical user interface.
- Read data into 12d Model, and triangulate that data to form a Digital Terrain Model.
- Create contour strings from the DTM.
- Create plan, section and perspective views and view the DTM in these views.
- Create different types of strings in 12d Model, and understand the different uses that can be made of the strings.
- Edit and modify the elevation and location of the strings.
- Explore the COGO functionality in 12d Model.
- Analyse a pad foundation using 12d Model. Vary the level of the foundation to balance earthwork volumes. View the completed design in a perspective view.

This is a foundation course in the use of 12d Model, and is a requirement for all new users.



Volumes & Tin Analysis

Participants will:

- Analyse a site based on the topographic survey to determine areas suitable for development.
- Creating the outline of a building pad, and determine the footprint of the pad on the existing surface. Analysing the volume of the pad by both cross section and exact (prismoidal) methods.
- Varying the level of the pad to balance earthwork volumes. Viewing the completed design in a perspective view.
- Creating an outline of the floor and top of a detention basin. Creating a model of the detention basin, and shading the basin walls based on slope.
- Analysing the storage volume available in the detention basin, both for the whole basin, and in depth increments (determine the storage curve).
- Creating a "stripped" surface for the basin, and determining topsoil volume. Analysing volumes between the floor of the basin and the stripped surface.

This course is aimed at users with a working knowledge of 12d Model, or those who have completed the 'Basic Ground Modelling' course.

Please note the content for all EXDS training is the use of 12d Model Software, EXDS does not teach civil and surveying principles.

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