



Course ID: 12d – 2S1

Two Day – Survey Procedures

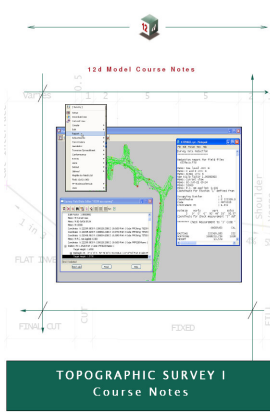
Summary:

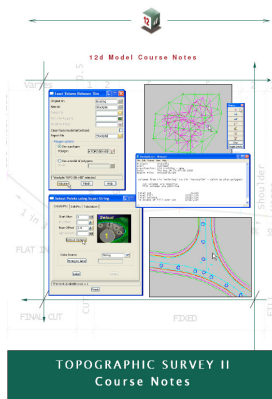
This course introduce people to the advanced tools of 12d Model Software for Surveying and the procedures to download, edit, manipulate and upload data onto instruments for detail and construction purposes.

Prerequisites:

Experience in 12d Model with completion of the **One Day – Introduction to 12d Model Software** (12d – 1A) or working through the “Getting Started for Design” manual is required.

Course Contents:

 <p>TOPOGRAPHIC SURVEY I Course Notes</p>	<h3>Survey I</h3> <p>This session covers the procedures for taking electronic data collected on a Total Station or GPS unit, and reducing the data into 12d Model. Steps covered include reducing the data, correcting miss-coded points and other field errors, manipulating the data into models (layers) with colours / linestyles / symbols applied.</p> <p>This course is NOT intended for complete beginners, and you will be expected to understand the basics of 12d Model - creating a plan view, adding models to the view, panning and zooming etc. These topics are covered in the 'Basic Ground Modelling' course.</p> <p>Participants learn to:</p> <ul style="list-style-type: none">• Setup 12d Model to receive data from your instrument.• Download data; convert into 12d Models field (neutral) format.• Create a (survey data reduction) function to import the field file into 12d Model.• Manipulate the data into models (layers) with colours / linestyles / symbols through a map file.• Fully utilize 12d Models coding, including the use of commands for curve fitting, pipes, templates etc.• Use 12d Model to correct codes/target heights and other typical field errors.• Check for crossing breaklines and other irregularities.• Triangulate the data and view the contours.• Create cross sections through a survey.• Plot the results and/or transfer the data to an external package.
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Survey II

This session covers manually creating and editing data, and creating upload files for your particular survey instrument.

This course is not intended for complete beginners, and you will be expected to understand the basics of 12d Model - creating a plan view, adding models to the view, panning and zooming etc. These topics are included in the 'Basic Ground Modelling' course. Prior completion of 'Survey 1 - Survey Data Reduction' is also assumed.

Participants learn to:

- Use string-editing techniques to manipulate existing data.
- Enter information by bearing and distance, including cadastral information.
- Use 12d Models Cogo functions.
- Create cadastral lots, and automatically label them.
- Create a house setout, including offset pegs.
- Take a typical road design, including alignments and kerb returns and create setout information.
- Using the above exercises, create relevant upload files for sending to Survey instruments.

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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