



FME DESKTOP 2010 INTRODUCTION - TRAINING

DURATION: 2 DAYS
PREREQUISITES: NONE, HOWEVER
COURSE REQUIRES KNOWLEDGE OF GIS PRINCIPLES

Course Overview

This hands-on training course is designed to help you get maximum value from your investment. Let our experts and professional training help you use the full potential of FME. Join one of our courses and learn to unlock the powerful features of the FME technology to manage your data translation and transformation challenges more effectively. Our training courses can help open up a whole new world of possibilities for you!

This course provides an Introduction to FME Desktop 2010 intended for new users of FME or users who wish to refresh their skills. There are no prerequisites for this course except the knowledge of GIS principles. If you'd like to learn more about GIS by using MapInfo Professional we recommend attending one of our MapInfo Professional training courses first. Alternatively if you are already a skilled FME Desktop user why not consider our FME Desktop Advanced course or our FME Server Authoring course.

To view course dates, or to book this course, visit www.dottedeyes.com/buytraining. To request more details about this course please call our Training Co-ordinator on 01527 556920 or email training@dottedeyes.com

Learning objectives of this course:

- Build complex translations using FME Workbench
- View and inspect data using the FME Viewer
- Apply best practices to large workspaces
- Manipulate data geometry and attributes with transformers
- Work with multiple datasets in a single workspace

Course Content by Session (09:15 – 17:00):

Welcome to Dotted Eyes

A brief introductory session:

- Course Overview
- Course Resources & Amenities
- About Dotted Eyes & Safe Software

Data Translation Basics

This session will introduce the suite of FME tools, some theory and thin-pipe translations:

- Interoperability and barriers to Interoperability
- What is FME?
- FME Editions and Licensing
- FME Desktop Components
- Introduction to FME Workbench
- Setting up a Translation

- Introduction to the FME Universal Translator

Data Inspection

It is possible to inspect your data before, after and even during a translation process with FME:

- What is Data Inspection?
- Introduction to the FME Universal Viewer
- Using the FME Universal Viewer
- Types of Geometry
- Display Control
- Miscellaneous Viewer Functionality
- Raster Data and the FME Viewer
- Translation Previews

Data Transformation

FME has a wealth of data transformation capabilities. This session introduces the concept of schema mapping, appropriate transformer use and transformer capabilities:

- Schema Concepts
- Schema Editing
- Schema Mapping
- Geometric Transformation
- Attribute Transformation
- Transformation Using Transformers
- Transformers used in Series
- Transformer Drag-and-Insert
- Quick Connect
- Transformers used in Parallel
- Quick Add
- Group and Feature Based Transformation
- Coordinate System Transformation

Format Translations

The semantic FME processing engine supports more than 250 data formats. This session demonstrates how to successfully translate data between formats:

- FME and Data Formats
- Important FME Terminology
- Controlling Translations
- Workspace Parameters
- Reader and Writer Parameters
- Format Attributes
- Published Parameters
- Advanced Format Controls
- Semantic Translations

Working with Readers and Writers

Not all dataset schemas are the same! This session will enable you to better understand and manage the flow of data through your Workbench from multiple source formats to multiple destination formats:

- Multiple Data Set Translations
- Multiple Source Data Sets
- Selecting Multiple Data Sources
- Editing Existing Workspaces

- Dealing with Source Feature Types
- Multiple Readers and Writers
- Feature Type Manipulation
- Dynamic Translations
- Workbench Schema Mapping Functionality

Practical Transformer Use

This session will provide you with a wider experience of Transformer use:

- Finding and Placing Transformers
- Operational vs Support Transformers
- Most Valuable Transformers
- Conditional Filtering
- Managing Attributes
- Schema Mapping
- Synchronise Read and Write
- Customising Workbench
- Basic Custom Transformers

FME Best Practice

FME Workbench includes a number of capabilities, which when applying best practice, help you manage your translations enabling workspaces to be used and managed efficiently. This session will cover:

- What is Best Practice?
- FME Workspace Style Guide
- Flow of Features
- Efficient Workbench Use
- Transformer Best Practice
- Format Best Practice
- Debugging Best Practice
- Project Based Use of FME

Multipurpose Workspaces

- Multipurpose Parameters
- Multipurpose Formats
- Dynamic Translations
- Multipurpose Feature Types
- Multipurpose Attributes

Exercises

A number of practical exercises are included throughout the course to reinforce the content of each section. These exercises may include some of the following:

- Quick Translation
- Data Visualisation and Inspection
- Spatial Data Transformation
- Polygon Creation
- Change Detection
- Format Translation
- GIS to CAD Translation
- Processing GPS Data
- Data Validation and Cleanup

- Custom Transformers
- Generic Formats and Dynamic Schemas
- ...plus many more

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Training Facilities

Our custom built training suite at Hanbury Court in North Worcestershire provides purpose built facilities for up to 10 delegates. Each delegate has the use of an up to date individual computer with TFT screen and the latest edition of the relevant software.

Disabled access - There is full disabled access to the building with dropped kerbs offering easy access. All training is conducted on the ground floor where a dedicated disabled washroom is also situated for your convenience. We are especially keen to welcome disabled guests and make their visit as comfortable as possible.

Car parking - There is free car parking on site.

Dietary requirements - All courses include lunch as well as mid morning and afternoon refreshments. We are happy to cater for vegetarians and those with other dietary requirements, providing we have advance notification.

Opening hours - Access to the building is available from 8:30am to 5:45pm on training days.

Internet access - Delegates can use the internet or check webmail on their training machine during breaks.

Taxis - Dotted Eyes staff are happy to help arrange a taxi for your return journey to your hotel or the train station if required.

Certification

Dotted Eyes public courses are accredited by the Association for Geographic Information (AGI) and contribute toward achieving Chartered Geographer status. Delegates who attend are therefore eligible to receive CPD points towards their Continual Professional Development. A certificate is provided to each delegate upon completion of the course.

- MapInfo Professional – Public Introduction Course– 6 CPD Points
- MapInfo Professional – Public Advanced Course– 7 CPD Points
- MapInfo Professional – Public Refresher Course – 3 CPD Points
- MapInfo Professional – Public Migration Course – 4 CPD Points
- MapInfo Professional – Public Introduction for NHS – 3 Points
- MapInfo Professional – Public Advanced for NHS – 4 Points
- MapInfo Professional – Public Introduction for Church of England – 4 Points
- MapInfo Professional – Public Advanced for Church of England – 4 Points
- Vertical Mapper – Public Course - 4 CPD Points
- FME – Public Introduction Course – 6 CPD Points**
- FME – Public Advanced Course – 7 CPD Points
- FME – Public Server (Authoring) Course – 4 CPD Points
- Addressing PAI with ShiftWiz – 3 CPD Points
- Processing OS MasterMap with InterpOSe – 3 CPD Points

If you require a bespoke course especially to suit your organisation's requirements we can also apply to have your customised training materials accredited by the AGI.



Chartered Geographer - CPD Points - In order to meet the requirements laid down by the Royal Geographical Society - Institute of British Geographers (RGS-IBG), a minimum of 35 CPD hours (known as points) must be collected each year to gain and maintain Chartered Geographer (GIS) status. Of these, 20 hours should be sourced from external training/development, and the remaining 15 hours from internal training and development. Although these hours can be made up of any number of different activities, the RGS-IBG and AGI insist that annual CPD submissions are both balanced and relevant in their make-up.

Bespoke Training

In addition to Dotted Eyes public training course offerings we also offer you the flexibility to tell us exactly how you would like to be trained! We'll customise a course based upon your unique requirements. For example we could dedicate a course to staff from your organisation, condense/extend the course content, customise the course to use your own data or even deliver the course material on a one-to-one basis... The choice is yours!

About Dotted Eyes

Dotted Eyes provides a range of products and services to its wide customer base including web mapping, spatial data loading, consultancy, training, data and software. The company is now producing a range of solutions which will revolutionise the way in which GIS departments deliver their services, removing the repetitive low value items from a GIS Manager's task list so they can focus instead on real, high value GIS services and analysis.

The organisation is one of Ordnance Survey's Premier Partners, and a trusted partner of NAVTEQ, Pitney Bowes Business Insight (MapInfo) and one of only 2 worldwide Platinum Partners of Safe Software. The organisation is accredited by Buying Solutions, and has recently won three major public sector procurements, including the contract to supply digital maps to the NHS in England.