FME Desktop Advanced Training

**Course Outline**

Overview

Learn from the experts in how to exploit the most commonly used advanced components and capabilities in FME through this course, which includes extensive hands-on, problem-solving exercises.

Learning Objectives

* Construct attributes with the text and arithmetic editors
* Understand when and how to apply conditional attribute values
* Workspace design for clarity and performance
* Analyze and deconstruct an FME log file
* Understand potential methods for improving FME performance
* Make use of user parameters, controlling the input using advanced settings
* Incorporate advanced methods for reading and writing datasets (dynamic workspaces, fanouts, etc.)
* Create, edit and re-use a custom transformer

Course Outline

**Welcome to Safe Software**

Course Overview

FME Version and Sample Data

Introductions

Exercise:

Review FME Basic Skills

**Advanced Attribute Handling**

Constructing Values

Editor Dialogs

FME Functions

Conditional Values

Multiple Feature Attributes

Null Attributes

Exercises:

Constructing Attribute Values

Conditional Attribute Values

Adjacent Feature Attributes

Null Attribute Handling

**Advanced Workspace Design**

Feature Caching and Partial Runs

Bookmarks

Log file Interpretation

64-Bit FME

Performance Tips

Assessing Performance

Reader and Writer Optimization

Transformer Optimization

Database Optimization

Server and Cloud Performance

Parallel Processing

Batch Processing

Exercises:

Workspace Design and Feature Caching

Interpreting an FME Log File

Optimizing Workspaces and Raster Processing

Database Optimization

Parallell Processing

**Advanced Readers and Writers**

Zip File Handling

Web-Based Datasets

Fanouts

Generic Reader and Writer

Dynamic Translations

Dynamic Schema Handling

Advanced Dynamic Schemas

Exercises:

Creating Web Connections

Generic Writing, Fanout and Zip Files

Dynamic Formats

Dynamic Schema

Table Based Schemas for Dynamic Translations

**Advanced Parameter Use**

FME Parameters

User Parameters

Parameter Types

Linking Parameters

Shared Parameters

Parameter Settings

Parameters and Attributes

Exercises:

Create and Use Basic User Parameters

Create and Use Complex User Parameters

Use FME and System Parameters

Custom Transformers

Creating Custom Transformers

Input and Output Ports

Schema Handling

Custom Transformer Types

Creating Linked Transformers

Switching Transformer Types

Custom Transformer Versioning

Parallel Processing

Looping

Exercises:

Basic Custom Transformer Creation

Re-use and Editing Custom Transformers

Published Parameters with Custom Transformers

Custom Transformer Modes

Custom Transformers and Parallel Processing

Looping Inside Custom Transformers

Learn More

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For questions or to inquire about a private onsite class, please contact us at 604-501-9985, extension 287 or e-mail [training@safe.com](mailto:training@safe.com).