FME Form Advanced Training Course Outline

Overview

Take your FME skills to the next level with expert-led training focused on designing high-performance, scalable workspaces. Learn advanced data integration, schema handling, parameterization, and performance tuning, all through practical, real-world exercises.

Course Objectives

- Integrate complex and dynamic data sources
- Handle incomplete and null data reliably
- Optimize performance for production workflows
- Create reusable components using parameters and custom transformers
- Troubleshoot and collaborate more effectively

Modules & Key Topics

1. Advanced Reading & Writing

- Use archive and web formats
- Read/write mid-workflow with FeatureReader & FeatureWriter
- Access and process live web data

2. Flexible & Modular Design

- Build parameterized, user-driven workspaces
- Embed advanced user parameter techniques
- Use private vs published parameters appropriately
- Create and manage reusable custom transformers

3. Dynamic Schema Handling

- Define schema from incoming or external datasets
- Use dynamic workflows and generic modes
- Automate schema updates with the SchemaScanner

4. Performance Optimization

- Streamline data reading and writing
- Use fanouts, filtering, batching, and parallel processing
- Optimize file system and database performance

- Profile workspace performance and implement best practices

5. Data Quality & Handling

- Detect and manage null, missing, or "nothing" values
- Map, set, and control null values using dedicated transformers

6. Data Ordering & Logic

- Leverage adjacent feature attributes
- Calculate or enrich data based on feature order

7. Workspace Collaboration & Review

- Compare workspace versions and merge changes
- Perform structured code reviews

Hands-On Exercises

Each module includes practical exercises such as:

- Using web-based datasets
- Parameterizing and reviewing workspaces
- Handling null and missing values
- Creating dynamic and batch workflows
- Building and versioning custom transformer libraries
- Optimizing workspace/database performance
- Detecting and reacting to schema drift

Who Should Attend

FME users who have completed introductory training or have equivalent experience and are ready to take on more complex challenges in production environments.