TEACHMEGIS.COM
GIS TRAINING CENTER

Introduction to FME

Course Length: 2 days
ArcGIS Version: 10.x
App: ArcMap or ArcGIS Pro, FME Desktop

Overview

The FME software is a great tool for transforming data from and to GIS formats. This class shows you how to use FME Workbench and focuses on the three essential components of FME: Reader, Writers, and Transformers. Mastering these will allow you to quickly begin building your own transformations. With hands-on projects, this course will cover many commonly used workflows. Once you complete this course, you will know how to use FME to process data from a variety of sources including shapefiles, text files, and even spreadsheets.

Audience

This class is ideal for geotechs, GIS analysts, and spatial data managers.

Choose your Track:

- Petroleum
- Non-Petroleum

Topics Covered

Day 1

- Getting Started with FME – Become familiar with the basic components of the interface of Workbench, Quick Translator, and Data Inspector. (What is FME?; Creating Simple Translations; FME Quick Translator; FME Data Inspector)
- Creating Your First Workspace – Create a basic translation workspace. (Creating a Translation in a New Workspace)
- Organizing Your Workspace – Make workspaces easier to follow with tips on organizing your workbench. (Workbench Organization; Other Tips)
- Transforming Web Data – Connect to various types of online data to download, upload, or update it. (Working with Online Data)
- Transforming Tabular Data to Spatial Data – Use specialized transformers to extract spatial information from tables. (Transforming Tabular Data to Points, Lines, and Polygons; Working with Coordinate Systems; Coordinate Math; StringSearcher and Regular Expressions)

Day 2

- Transforming Geospatial Data – Transform spatial data into tabular data. (Transformers for Converting Spatial Data to Tabular Data; Transformers for Working with Geospatial Data)
- Merging and Joining Data - Merge or join features from multiple inputs based on common key attributes. (Joining Tables; Transformers that Join Tables; Spatial Joins; Executing SQL Statements; Working with Lists)

- Working with Attributes – Filter data based upon attribute values. Parse string values. (Filtering Data; Remapping Attributes; Creating and Maintaining Attributes)
- Calculating Statistics and Evaluating Expressions – Use transformers to perform calculations. (Calculating Statistics; Calculating Values)
- FME and ArcGIS – Learn how FME works with the ArcGIS software suite. (FME/ArcGIS Relationship; FME Esri Edition in ArcGIS; Accessing ArcGIS Online Web Services in FME; SDE Readers and Writers)

Format

In-person instruction with hands-on practice, and course materials you can keep.

Prerequisites and Recommendations

Attendees should be familiar with the basic use of ArcGIS including the topics covered in the **Fundamentals of ArcGIS** or the **Introduction to ArcGIS Pro** course.