

# Introduction to FME

*Course Length: 2 days*

*FME Version: 2018.x*

*App: ArcMap, 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, textfiles, 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. (What is FME?; Creating Simple Translations)
- **Creating Your First Workspace** – Create a basic translation workspace and observing data in FME Data Inspector. (Creating a Translations in a New Workspace; FME Data Inspector)
- **Organizing Your Workspace** – Make workspaces easier to follow with tips on organizing your workbench. (Workbench Organization; Other Tips)
- **Transforming Tabular Data to Spatial Data** – Use specialized transformers to extract spatial information from tables. (Transform Tabular Data to Points; Transform Tabular Data to Lines and Polygons)
- **Extracting Coordinates from Geospatial Data** – Transform spatial data into tabular data. (Transformers for Converting Spatial Data to Tabular Data; Coordinate Math; StringSearcher and Regular Expressions)

### Day 2

- **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)
- **Filtering Data and Reclassifying 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)
- **Working with Lists** – Use transformers to create lists that can be split into parts and used to model different types of relationships. (Data Relationships; Working with Lists)
- **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** and the **Intermediate GIS Concepts** classes.