
Table of Contents

Introduction	1.1
About This Document	1.2
Course Overview	1.2.1
Course Resources	1.2.2
Data Translation Basics	1.3
What is FME?	1.3.1
How FME Works	1.3.2
FME Desktop Components	1.3.3
Introduction to FME Workbench	1.3.4
FME Workbench Components	1.3.5
Window Control in Workbench	1.3.6
Creating a Translation	1.3.7
The New Workspace	1.3.8
Running a Translation	1.3.9
Exercise: Basic Workspace Creation	1.3.10
Data Inspection	1.3.11
Introduction to FME Data Inspector	1.3.12
FME Data Inspector Components	1.3.13
Viewing Data in the FME Data Inspector	1.3.14
Querying Data in the FME Data Inspector	1.3.15
Exercise: Basic Data Inspection	1.3.16
More Data Inspector Functionality	1.3.17
More Data Inspector Functionality	1.3.18
Exercise: The FME Data Inspector	1.3.19
Data Translation Previews	1.3.20
Module Review	1.3.21
Q+A Answers	1.3.22
Exercise: Tourist Bureau Project	1.3.23
Data Transformation	1.4
What is Data Transformation	1.4.1

Structural Transformation	1.4.2
Schema Editing	1.4.3
Schema Mapping	1.4.4
Exercise: Grounds Maintenance Project - Schema Editing	1.4.5
Transformation with Transformers	1.4.6
Exercise: Grounds Maintenance Project - Structural Transformation	1.4.7
Content Transformation	1.4.8
Transformers in Series	1.4.9
Exercise: Grounds Maintenance Project - Calculating Statistics	1.4.10
Feature Count Display	1.4.11
Transformers in Parallel	1.4.12
Exercise: Grounds Maintenance Project - Labelling Features	1.4.13
Group-By Processing	1.4.14
Exercise: Grounds Maintenance Project - Neighborhood Averages	1.4.15
Data Inspection from Workbench	1.4.16
Coordinate System Transformation	1.4.17
Exercise: Grounds Maintenance Project - Data Reprojection	1.4.18
Module Review	1.4.19
Q+A Answers	1.4.20
Exercise: Voting Analysis Project	1.4.21
Translation Components	1.5
Key Components	1.5.1
Component Hierarchy	1.5.2
Workspaces	1.5.3
Exercise: Fundraising Walk - Creating a Workspace	1.5.4
Readers	1.5.5
Reader Parameters	1.5.6
Reader Dataset Parameter	1.5.7
Exercise: Fundraising Walk - Adding Readers	1.5.8
Reader Feature Types	1.5.9
Importing Reader Feature Types	1.5.10
Updating Reader Feature Types	1.5.11
Reader Feature Type Parameters	1.5.12
Exercise: Fundraising Walk - Reader Feature Types	1.5.13

Managing Reader Datasets	1.5.14
Exercise: Fundraising Walk - Unexpected Input	1.5.15
Unexpected Input	1.5.16
Dealing with Unexpected Input	1.5.17
Exercise: Fundraising Walk - Dealing with Unexpected Input	1.5.18
Writers	1.5.19
Controlling Writers	1.5.20
Exercise: Fundraising Walk - Adding Writers	1.5.21
Writer Feature Types	1.5.22
Add Writer Feature Types	1.5.23
Exercise: Fundraising Walk - Managing Writer Feature Types	1.5.24
Copy/Remove Writer Feature Types	1.5.25
Import Writer Feature Types	1.5.26
Writer Feature Type Parameters	1.5.27
Module Review	1.5.28
Q+A Answers	1.5.29
Exercise: Elevation Model Updates	1.5.30
Practical Transformer Use	1.6
The Transformer Gallery	1.6.1
Transformer Searching	1.6.2
Most Valuable Transformers	1.6.3
Managing Attributes	1.6.4
Creating and Setting Attributes	1.6.5
Constructing Attributes	1.6.6
Constructing Transformer Parameters	1.6.7
Renaming and Copying Attributes	1.6.8
Bulk Attribute Renaming	1.6.9
Removing Attributes	1.6.10
Exercise: Address Open Data Project	1.6.11
Conditional Filtering	1.6.12
Tester and TestFilter	1.6.13
Other Key Filter Transformers	1.6.14
Exercise: Noise Control Laws Project	1.6.15

Data Joins	1.6.16
Attribute Joins	1.6.17
Spatial Joins	1.6.18
Module Review	1.6.19
Q+A Answers	1.6.20
Exercise: Crime Mapping Data Request	1.6.21
Best Practice	1.7
Style	1.7.1
Annotating Workspaces	1.7.2
Bookmarks	1.7.3
Bookmarks for Sectioning	1.7.3.1
Bookmarks for Access	1.7.3.2
Bookmarks for Editing	1.7.3.3
Object Layout	1.7.4
Connection Styles	1.7.5
Exercise: The FME Style Guide	1.7.6
Methodology	1.7.7
Prototyping	1.7.8
Reusing Resources	1.7.9
Templates	1.7.10
Workspace Searching	1.7.11
Format Best Practices	1.7.12
Transformer Best Practices	1.7.13
Exercise: Design Patterns	1.7.14
Debugging	1.7.15
Logging	1.7.16
Interpreting the Log	1.7.17
Feature Counts	1.7.18
Inspecting Output	1.7.19
Testing a Workspace	1.7.20
Exercise: Debugging a Workspace	1.7.21
Feature Debugging	1.7.22
Module Review	1.7.23
Q+A Answers	1.7.24

Exercise: Shortest Route Hackathon	1.7.25
Course Wrap-Up	1.8
Product Information and Resources	1.8.1
Community Information and Resources	1.8.2
Feedback and Certificates	1.8.3
Thank You	1.8.4
Exercise: A Fun Challenge!	1.8.5