



ArcGIS ModelBuilder for Pro

Course ID #: 7000-028-ZZ-Z

Hours: 14

Course Content

Course Description:

This course teaches you the basics of building models and handling data in ModelBuilder, then shows you how to take your models to the next level by including variables and looping constructs. For example, you can build a model that automatically renames all the feature classes in a geodatabase or one that loops through all of the unique values in an attribute table.

Prerequisites:

Students should have knowledge of Microsoft Windows® and be familiar with the basic use of ArcGIS, including the topics covered in the Introduction to ArcGIS Pro and Intermediate ArcGIS Pro classes.

Target Student:

This course is designed for those who are comfortable with ArcGIS and want to learn how to automate tasks in ArcGIS Pro.

Topics:

Day 1

- Introduction to ModelBuilder – An introduction to the Model Building Process. (How Model Builder is Used; What a Model Looks Like)
- Model Builder Basics – Getting Started with Model Builder. (Basic Model Components; Running a Model; Working in the Model Builder Interface; Sharing a Model)
- Geoprocessing Tools – Understanding Geoprocessing. (Types of Tools; Licensing of Tools; Getting Help; Tools To Create Data; Field Calculator Tool)
- Model Settings – Setting your models to accept variables as input. (Editing Models; Model Properties; Labeling Models; Using Model Parameters to Make a Model

Flexible; Preconditions to Control the Flow of a Model)

- Consuming Data – Dealing with the datasets that are created and used by your model. (Tools for working with various data types; Feature Class vs. Feature Layer; Table vs. Table View; Raster vs. Raster View; Converting Between the Supported Data Types)

Day 2

- Variables – Create variables to allow SQL Expressions, Buffer Distances and other user inputs to be specified at run-time. (Variables from Input Parameters; Custom Variables; Using the Variable Value Later in the Model)



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- Iterations – Repeat parts of a model. (Looping Over All the Feature Classes in a Geodatabase; Looping Over All of the Attribute Values in One Field of an Attribute Table; Other Loop Constructs)
- Sharing Models – Documenting a Model to Share as a Tool. (Documenting a Model; Sharing a Toolbox)
- Model-Only Tools – Build a model that makes decisions. (Branching a Model; Merging Model Branches; Assuring that Both Branches Complete Before the Merge Happens)