

## **ArcGIS Extensions: Network Analyst—Data Preparation**

### **Goals of the workshop**

- Determine what processing of street data is needed to model it as network dataset for use in Network Analyst.
- Explain how to establish proper connectivity between street features in a network dataset.
- Identify and set up the network attributes needed to perform network analysis and generate driving directions text.
- Determine which types of evaluators to use in network attributes.
- Describe how to model vehicle height/weight restrictions in the network.

### **Major topics covered**

- Determining what information in your street data can be used as a setting in a network dataset.
- Network connectivity: Creating coincident geometry in your street data; modeling overpasses and underpasses using elevation fields.
- Network attributes: Modeling travel distances, travel times, one-way streets, road hierarchy levels, and road classes.
- Turns: Modeling turn restrictions and turning penalties; creating and editing turn features.
- Driving directions: Incorporating street names and signpost text into the turn-by-turn driving directions.
- Multimodal networks: Modeling proper connectivity between modes; creating attributes.
- Evaluators: Examining the different types and when to use each; effects on network analysis performance; when to implement a custom evaluator.
- Attribute parameters: Modeling height/weight limit restrictions.