

### Collect quality field GPS data and create an ArcGIS map

This class is indispensable to anyone seeking to leverage the strengths of ESRI ArcGIS and a mapping grade GPS system. It is a comprehensive suite of theory, techniques, and hands-on practice to learn to use GPS equipment/software, export collected data, and compose the data in a GIS. Equipment and software used during the course for project planning and field exercises includes mapping grade GPS receivers, ESRI ArcPad data collection software, Trimble Pathfinder Office or GPS Analyst Extension for data processing, and ESRI ArcGIS to display and analyze data, and create map products.

#### Session Topics

**Pre-Field:** Global Positioning System, datums and coordinate systems, Trimble Pathfinder Office software, data dictionaries, GPS receiver configuration.

**Field:** Data collection techniques, navigation, hands-on exercises.

**Post-Field:** Differential correction, export ESRI shapefiles and/or geodatabase, edit GPS positions, create a GIS map, metadata.

#### Objectives

All aspects of a data collection project with ArcPad and GPS Analyst will be covered, including designing a GPS-enabled geodatabase, using GPS Analyst tools for ArcPad, configuring ArcPad & the Trimble GPSCorrect extension, field data collection, and processing data with Trimble Pathfinder Office software or GPS Analyst Extension. GPS Analyst processing includes validation and rebuild settings.

#### Target Group

Designed to help you get the most out of your mapping system, this class is highly recommended for beginners and anyone who needs a refresher course before the next field season. Field specialists who are actively involved with GPS data collection and processing. GIS specialists who are involved in spatial data analysis and maintenance.

**Duration**

3-4 days