

### **Plan and complete a GPS project utilizing an integrated suite of geospatial tools**

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, compose the data in a GIS, and integrate photo documentation. 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 for data processing, Geospatial Experts GPS-Photo Link or WindImage for ArcMap for GPS-photos, and ESRI ArcGIS to analyze data and create map products.

#### **Session Topics**

**Pre-Field:** Geographic fundamentals, 7 steps of a successful project, designing and creating a GPS-enabled geodatabase, specifying the required accuracy for features, using GPS Analyst tools for ArcPad, configuring ArcPad, GPSCorrect and digital camera.

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

**Post-Field:** Checking in and processing data, differentially correction, analyzing GPS Positions, validating and rebuilding features, hyperlink digital images, create a GIS map.

#### **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**

3-5 days