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

This course 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, Trimble TerraSync data collection software, Trimble Pathfinder Office or GPS Analyst for processing GPS data, Geospatial Experts GPS-Photo Link or WindImage for ArcMap for processing GPS-photos, 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 and camera configuration.
Field: Data collection techniques, navigation, digital photography, hands-on exercises.
Post-Field: Differential correction, export ESRI shapefiles and/or geodatabase, edit GPS positions, hyperlink digital images, create a GIS map, metadata.

Objectives
Through classroom discussion and hands-on exercises you will be able to plan and complete a GPS project, collect quality field data, and confidently export GPS data to a GIS, create a map, and integrate GPS-tagged photos with GIS. Whether you are learning to use your mapping system for the first time, or learning to use what you have more efficiently, you will find this class well worth your time.

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