

# GeoRover<sup>®</sup> Software Training Course (3-day)

## Objective:

The SAIC GeoRover software products training course is designed to give students a basic foundation in ESRI<sup>®</sup> ArcGIS<sup>®</sup> Desktop Software, focused around the GeoRover Software tools. Utilizing the GeoRover Software tools interface, training time for ArcMap<sup>™</sup> is greatly reduced. Upon completion of this training course students will have a greater understanding of ArcGIS and will be able to utilize GeoRover software products to greatly reduce time required for common ArcGIS processes, easily work with field collected data, and quickly create professional-looking products from spatial data.

## Section 1: ArcGIS Overview (3 hrs)

This section is an introduction to the ArcGIS Desktop (9.x) software package. Students will be introduced to general geographic information system concepts, as well as more software-specific functions. A hands-on training exercise follows this discussion to allow students the chance to practice with ArcGIS. Topics covered include:

- ArcGIS components
- Data structure
- Creating map documents
- Adding data
- Standard tools and toolbars
- Scales
- Datums and projections
- Customizing toolbars
- Selection methods
- Symbolizing layers
- ArcCatalog
- ArcToolbox
- Labeling

## Section 2: GeoRover RPF Tools Extension (2 hrs)

This section covers the creation of RPF map catalogs using the GeoRover RPF Tools Extension. A hands-on exercise allows students to create an RPF map catalog to use as background maps in future exercises. One future exercise in particular allows students to use the GeoRover RPF Tools extension to select and copy-out specific RPF maps to eliminate storage size. Topics covered include:

- GeoRover RPF Tools extension
- RPF data structure
- Benefits of RPF map catalogs
- Creating GeoRover RPF map catalogs
- Using map catalogs within ArcMap
- Creating sub-catalogs
- Copying/moving RPF map data with GeoRover RPF Tools

### **Section 3: GeoRover Tools for ArcGIS (16 hrs)**

In addition to RPF Tools, GeoRover software consists of the following extensions: Zoom Tools, Coordinate Viewer, Locus Track, Digital Data Tracker and Range Tools. Together, these tools simplify the process of creating, importing, editing, and sharing GIS data. Additionally, these tools enable field collectors to perform real-time or post-collection processing of GPS data and collection devices. This section of the course familiarizes students with all of the GeoRover software extensions. There are a number of hands-on exercises which allow the students to effectively use all of the GeoRover tools to work through scenarios.

#### **Section 3a: GeoRover Zoom Tools Extension (1 hr)**

Topics covered include:

- Quick zoom tools
- Zoom to location tool
- Customizing Zoom Tools toolbar

#### **Section 3b: GeoRover Coordinate Viewer Extension (1 hr)**

Topics covered include:

- Customizing Coordinate Window
- Copy Coordinates tool
- Customizing right-click menu for Copying coordinates

#### **Section 3c: GeoRover Locus Track Extension (9 hrs)**

Topics covered include:

- Locus Track tools overview
- Adding features (points, lines, areas) through several input methods
- One-click feature editing
- Coordinate tracking
- Data import wizard
- Linked data
- Export data to interactive HTML, PowerPoint™, or Excel™
- Shapefile creation within ArcMap

#### **Section 3d: GeoRover Digital Data Tracker Extension (3 hrs)**

Topics covered include:

- Configuring GPS units
- Collecting field data
- Importing GPS track logs and waypoints
- Upload waypoints and track logs to GPS
- Geolocating field data
- Real-time track log
- Export field collected data to slideshows or HTML pages
- Instruction on geotagging
- Import .GPX files and GPS-Tagged Data (EXIF formats)

### **Section 3: GeoRover Range Tools Extension (2 hr)**

Topics covered include:

- Range Tools overview
- Adding range features (rings, ellipses, arcs) through several input methods
- One-click range feature editing
- Range feature import wizard

### **Section 4: Advanced ArcGIS Skills (3 hrs)**

This part of the course focuses on more complex tasks within ArcMap or ArcCatalog. This is a time when students can apply all of the new skills they have learned toward a broader scenario which they design. There will be time for students to ask questions regarding topics not previously covered in the course. Possible topics may include:

- Definition queries
- Creating layer files
- Advanced geodatabase design with coded value domains

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The SAIC GeoRover Software Program is an ESRI business partner, developer and value-added reseller. Special quantity discounts are available for government agencies and educational institutions.

GeoRover software licenses, maintenance, and training classes are available on SAIC GSA IT Schedule, Contract #GS-35F-4461G

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