Digital Mapping for Search and Rescue / Emergency response

Course Outline

1. Maps for SAR / Emergency response
   a. Needs

2. Introduction to Electronic Maps
   a. Software
   b. Internet based

3. Terrain Navigator
   a. Basic tour
   b. Access maps / Storing maps / Topo map Server
      i. Map information
   c. Setting preferences
      i. Coordinate System
      ii. Datum
   d. Viewing
      i. Single view / Seamless
      ii. 2D / 3D
      iii. Scale / zooming / Map Overview
   e. Finding locations
      i. City / zip code / Coordinates
      ii. Bookmark view
   f. EXERCISE – Table top #1
   g. Measuring distance and bearings
      i. True vs Magnetic
   h. Adding waypoints
      i. Adding detail
   i. Adding tracks
      i. Adding detail
      ii. Profile
      iii. Line of Sight
   j. Routes
      i. Map segmenting
      ii. Area calculation
   k. Add labels
   l. EXERCISE - Table top #1 continue
   m. Terrain Navigator Part 2
      i. Printing
      ii. GPS integration
      iii. Integration with Google Earth
   n. EXERCISE – Table top #1 continue
4. DNR Garmin
5. Terrain Navigator Pro
   a. Comparison

6. Topo USA
   a. Basic tour
   b. Access maps / Storing maps / MapShare
      i. Map information
   c. Setting preferences
      i. Coordinate System
      ii. Datum
   d. Viewing
      i. Single view / Seamless
      ii. 2D / 3D
      iii. Scale / zooming / Map Overview
   e. Finding locations
      i. City / zip code / Coordinates
      ii. Bookmark view
   f. EXERCISE – Table top #2
   g. Measuring distance and bearings
      i. True vs Magnetic
   h. Adding waypoints
      i. Adding detail
   i. Adding tracks
      i. Adding detail
      ii. Profile
      iii. Line of Sight
   j. Routing / Route Planning
   k. Search management
      i. Range rings
      ii. Map segmenting
      iii. Area calculation
   l. Add labels
   m. EXERCISE - Table top #2 continue
   n. Topo USA Part 2
      i. Printing
      ii. GPS integration
   o. EXERCISE – Table top #2 continue

7. Google Earth
a. Getting acquainted with GE
b. Finding places
   i. Waypoints
   ii. Tracks/Trails
c. GPS integration
d. Layers
   i. Adding in
   ii. Finding additional data
e. Search management
   i. Segments
   ii. Adding photos
f. Saving / Printing
g. EXERCISE – Table Top #3
h. Working Offline
   i. Sharing maps / remote planning
j. Tracking searches

8. ArcGIS Explorer
   a. Getting acquainted with AE
   b. Finding places
      i. Waypoints
      ii. Tracks/Trails
c. GPS integration
d. Layers
      i. Adding in
      ii. Finding additional data
e. Routing / Route Planning
f. Search management
   i. Range rings
   ii. Segments
   iii. Viewshed
   iv. Adding photos
g. Saving / Printing
h. EXERCISE – Table Top #4
   i. Sharing maps / remote planning
   j. Working Offline