

# GPS TRAINING

Instructor: Steve Thompson

Provided by the Southeast Region Homeland Security Council

This class is designed for any responder who what to learn more about GPS technology.

## Course Overview

**Exploring GPS Concepts:** Basic GPS concepts and level user must understand

**GPS Accuracy:** Explore vertical and horizontal accuracy

**GPS Data Collection:** Explore static and dynamic collection; real-time and post-processing corrections

**Digital Mapping Layers within the GPS:** Explore different data layers that accompany the GPS unit

**Datums and Projections:** Explore the differences in WGS84, NAD27, NAD83 datums and why datum and projection is important

**Coordinate Systems:** Explore different coordinate systems such as ECEF, Geographic, State Plane, Universal Transverse Mercator (UTM)

**Units:** Explore the difference between latitude and longitude units

**Familiarization with Your GPS Unit:** Hands on instruction from turning on your unit to downloading data to how to maintain it

**Field Work:** In the field hands on use of your GPS unit. The user will go collect data and then return to the classroom to see there data points over aerial photography

## Items that are Needed:

If you do not currently have a GPS unit the instructor will have 4, but if available bring a GPS unit with all its equipment

- GPS Unit
- Manual(s)
- Cables
- Software

**Space is limited to 15 students at each location.**

Questions? Please contact Jessica Frye at 785-274-1610 or [jessica.frye@tag.ks.gov](mailto:jessica.frye@tag.ks.gov).

**NOTE:** Lunch will be provided, but other travel related expenses will be covered by the individual(s) or the county.

---

## **REGISTRATION FORM**

**Time:** 9:30 AM to 4:00 PM

**Attendees:** 15 per session

\_\_\_\_\_ March 29th in Fort Scott (Fort Scott Community College, Fine Arts Building, 2108 S Horton) **RSVP by March 22nd**

\_\_\_\_\_ April 12th in Independence (Memorial Hall, 410 N Penn Ave)

**RSVP by April 5th**

**Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**County:** \_\_\_\_\_

**Position:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City/Zip:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Do you need any special accommodations to attend?** \_\_\_\_\_

\_\_\_\_\_

Please fax both attendees registration forms, from your county, to  
Jessica Frye, Kansas Homeland Security GIS Coordinator at 785-274-1426  
or email the information to [jessica.frye@tag.ks.gov](mailto:jessica.frye@tag.ks.gov).

Questions? Please contact Jessica Frye at 785-274-1610 or [jessica.frye@tag.ks.gov](mailto:jessica.frye@tag.ks.gov).