

## **INTRO TO GPS**

### **Course Description**

*This one-day course focuses on the Global Positioning System (GPS) as a technology that facilitates the collection of positional measurements anywhere on the surface of the Earth using satellites and handheld receivers. By learning GPS, students can collect and utilize highly accurate spatial data. GPS data, in conjunction with GIS and other data sets, can be used to help make better management decisions. This course will help students better understand the fundamentals of GPS as well as the proper techniques to ensure accurate data collection in the field. The subsequent exercises will involve preparing for a field data collection activity by constructing a detailed plan, as well as preparing the feature and attribute structure of the data that will be collected.*

### **Course Objectives**

*After completing this course, participants will be able to:*

- *Describe the fundamental concepts of the Global Positioning System*
- *Develop a GPS data collection plan*
- *Perform basic operations using an ArcPad-equipped GPS unit*
- *Create and transfer spatial data using GPS receivers*
- *Create metadata records of the captured GPS data using ArcCatalog*
- *Describe the post-processing steps to differentially correct GPS data*
- *Describe the fundamental concepts of map projections and datums*

### **Prerequisites**

*None*

*Registration Fee: \$400 per student*

**GEO-ON  
THE-GO**