

Introduction to GPS and ArcPad

Course Length: 1 day

ArcGIS Version: 10.x

App: ArcMap, ArcPad

Overview

This workshop can be used as a prerequisite to Trimble’s 2-day “ArcPad for Mobile GIS Training” class. Students learn to prepare, collect, download, and post-process their own GPS data. The format of the course is lectures on GPS theory and operation, hands-on setup of the GPS receiver, and multiple field sessions to collect data. At the end of the course, students will be able to move data from ArcMap to ArcPad, modify and add features in the field, then correct and download the data back into ArcMap.

Audience

This course is for those who are already comfortable with ArcGIS and/or GPS and want to learn more about GPS and how to use ArcPad.

Topics Covered

Day 1

- GPS and ArcPad (Fundamentals of GPS; Orientation to the GPS Device)
- GPS and ArcGIS (Sharing ArcGIS Data with ArcPad; Preparing Data in ArcMap for GPS Use; Moving Data Between GIS and GPS)
- GPS Components (Delving Deeper into How GPS Works; Implications for Field Data Collection)
- Errors and Correction (Improving Accuracy; Correction Techniques for GPS Coordinate; Why Correction is Needed)
- Issues and Alternatives (The Bigger Picture of GPS)

Prerequisites and Recommendations

Students should have knowledge of Microsoft Windows® and be familiar with the basic use of ArcGIS, including the topics covered in either the **Fundamentals of ArcGIS** or **ArcGIS Desktop I** classes.