Course Length: 1 day
App: ArcGIS Field Maps,
ArcGIS Survey123

Field Data Collection

Overview

Field data collection involves more than just publishing a map and opening an app. With appropriate planning, you can reduce the amount of time spent by your crews in the field as well as the amount of post-processing and data cleanup required after collection, improving the project efficiency and the data quality.

This course will span the entire project starting with using ArcGIS Online and ArcGIS Pro to prepare data for use in ArcGIS Field Maps, followed by collecting data using the app and finally uploading it back into ArcGIS Online. The course focuses on streamlining the entirety of the project, including creating an efficient field data collection strategy, properly configuring your attributes with drop-downs (domains), publishing feature services with appropriate settings and establishing guidelines for your field crew's data collection efforts.

In addition to learning how to configure and use ArcGIS Field Maps, participants will also learn how to create and use highly customizable forms in ArcGIS Survey123.

Audience

This course is for anyone familiar with the use of ArcGIS who will need to set up a field data collection project. This includes GIS professionals who will be responsible for the project planning, data setup, data QC, etc.

> NOTE: A partial-day private course covering use of Field Maps and Survey123 and field data collection best-practices is available for field crews. Contact us for more details.

Topics Covered

• Planning Your Project – Plan your project before you get started to ensure that it runs as smoothly as possible (Project Overview; Data Collection Strategy)

• ArcGIS Survey123 – Create both simple and highly customizable forms on your computer using Survey123, then complete the forms using the Survey123 mobile app (Creating Forms; Completing Forms; Analyzing the Results)

• Preparing Maps and Data – Create datasets with attachments and domains, as well as maps that can be published to ArcGIS Online as a feature service to later be used in Collector (Creating Data, Setting up the Map)

• Working with Services - See how publish a map from ArcMap to ArcGIS Online in preparation for use in Collector, and how to set required permissions in ArcGIS Online. (Publishing the Map, Setting Up in ArcGIS Online)

• GPS Basics – Understand how GPS devices know your location (The Global Positioning System)

- ArcGIS Field Maps – Learn how to use the Field Maps app to collect and modify data in the field. (What is Field Maps?; Working with Field Maps; Map Tools; Collecting Data; Working Offline)
- Data QC and Post-Processing – Discuss types of cleanup that may need to be done after data is collected (Processing After Collection; Data Quality Control)

Format

In-person or online instruction with hands-on practice and course materials you can keep.

Prerequisites and Recommendations

Students should have knowledge of Microsoft Windows® and be familiar with the basic use of ArcGIS Online and ArcGIS Pro including knowledge of the topics covered in the Fundamentals of ArcGIS and Intermediate GIS Concepts, as well as the Web Map Essentials courses. If you are not sure whether you are ready for this course, contact us and we will help you decide.

For public classes, participants must bring their own iOS or Android mobile device to class and be familiar with its operating system and basic operation. Your device must have location capabilities (GPS chip) and be able to connect to a WIFI network, but does not need to have a data plan. Contact us if you have questions about acceptable devices. For private classes, contact us about tailoring the course to the use of your corporate devices, including the operation of the devices and company best practices.

> NOTE: Field Maps is not available on Windows devices.