

Esri

Hands-On Learning Lab

Fact Sheet

What is the Hands-On Learning Lab?

The Hands-On Learning Lab (HOLL) is a training resource intended for conferences and other geographic information system (GIS) events. The lab, provided and developed by Esri Training Services, introduces ArcGIS® software users to a variety of Esri® solutions and is an excellent opportunity while learning to use Esri software.

How does the HOLL work?

The HOLL consists of a group of laptops with headphones and lets students work through lessons at their own pace. A lesson consists of a recorded presentation followed by a hands-on exercise. Each lesson typically takes from about 45 minutes to one hour to complete, and students can generally come and go as they please. Training Services instructors are on hand to answer questions and discuss Esri products, other training opportunities, and Esri Technical Certification.

How often is the HOLL updated?

The lesson topic choices are updated in sync with the Esri software release schedule in order to provide new and up-to-date content when it becomes available.

Interested in having the Hands-On Learning Lab at your next event?

For more information, please contact your Esri regional office representative or email GIStraining@esri.com.

Lessons offered at the HOLL (subject to change)

1. Getting Started with GIS
2. Learning the Fundamentals of ArcMap™
3. Getting Started with ArcGIS Pro
4. Storing Data in the Geodatabase
5. Constructing Points from Address Data
6. Importing CAD Data
7. Spatial Reference and Data Alignment
8. Editing GIS Data
9. Maintaining Land Records Using Parcel Fabric
10. Modeling Transportation Networks
11. Performing Image Classification
12. Finding the Best Location
13. Examining Patterns in Your Data
14. Displaying Data in 3D
15. Creating Maps for Presentation
16. Sharing GIS Content Using ArcGIS Online
17. Generating Custom Web Applications
18. Telling Your Story with Story Maps
19. Performing Analysis with ModelBuilder
20. Using Tasks in ArcGIS Pro
21. Automating Workflows Using Python
22. Using Business Analyst Web
23. Discovering Patterns Using Insights for ArcGIS
24. Monitoring Activity Using Operations Dashboard





Esri® Hands-On Learning Lab

LESSON SUMMARIES

1. Getting Started with GIS

Product: ArcGIS® Pro

Summary: Learn basic geographic information system (GIS) concepts using ArcGIS Online to access and use public GIS content, create and manage an online map, and work with analysis tools.

2. Learning the Fundamentals of ArcMap™

Product: ArcMap

Summary: Practice common GIS tasks including data management, display, analysis, and map layout using the Esri ArcMap application.

3. Getting Started with ArcGIS Pro

Product: ArcGIS Pro

Summary: Explore common GIS workflows using Esri ArcGIS Pro including mapping, editing, geoprocessing, and creating visualizations using simultaneous 2D and 3D layouts.

4. Storing Data in the Geodatabase

Product: ArcGIS Pro

Summary: Master the Esri geodatabase data model. Topics include geodatabase structure, feature classes, subtypes, relationship classes, and topologies.

5. Constructing Points from Address Data

Product: ArcGIS Pro

Summary: Locate customer locations and map efficient delivery routes by using feature classes.

6. Importing CAD Data

Product: ArcGIS Pro

Summary: Convert computer-aided design (CAD) datasets into features stored in the Esri geodatabase model.

7. Spatial Reference and Data Alignment

Product: ArcGIS Pro

Summary: Verify that both the geographic coordinate system (GCS) and the projected coordinate system (PCS) of your data are correct.

8. Editing GIS Data

Product: ArcGIS Pro

Summary: Use the ArcGIS Pro tools on the Edit tab to create and modify features stored in a geodatabase.

9. Maintaining Land Records Using Parcel Fabric

Product: ArcMap

Summary: Examine the parcel fabric data model and editing environment.

10. Modeling Transportation Networks

Product: ArcGIS Pro

Summary: Compare how the various ArcGIS Network Analyst network solvers resolve transportation problems based on a variety of considerations.

11. Performing Image Classification

Product: ArcGIS Pro

Summary: Experience using the Image Classification Wizard to assign classes to the pixels in a remotely sensed image.

12. Finding the Best Location

Product: ArcGIS Pro

Summary: Utilize cell-based raster data to find the most appropriate space to locate a vineyard.

13. Examining Patterns in Your Data

Product: ArcGIS Pro

Summary: Apply ArcGIS spatial analysis tools to examine both the data distributions and patterns in the spread of dengue fever over a six-week span in Pennathur, India.

14. Displaying Data in 3D

Product: ArcGIS Pro

Summary: Become familiar with both creating and visualizing 3D data in ArcGIS Pro.

15. Creating Maps for Presentation

Product: ArcGIS Pro

Summary: Acquire the skills to produce presentation-quality maps, using basic cartographic design principles.

16. Sharing GIS Content Using ArcGIS Online

Product: ArcGIS Online

Summary: Explore ArcGIS Online workflows for creating online data, performing visual analysis, configuring a web map, and sharing the results.

17. Generating Custom Web Applications

Product: ArcGIS apps

Summary: Create and configure web maps using both web app templates and Web AppBuilder for ArcGIS.

18. Telling Your Story with Story Maps

Product: ArcGIS apps

Summary: Inform, engage, and inspire people with a story that is told by combining maps with narrative text, images, and multimedia.

19. Performing Analysis with ModelBuilder

Product: ArcGIS Pro

Summary: Automate and document your spatial analysis and data management processes using a visual programming language.

20. Using Tasks in ArcGIS Pro

Product: ArcGIS Pro

Summary: Configure a set of steps that guides the user through a workflow or process in support of best-practice workflows and efficiency.

21. Automating Workflows Using Python

Product: ArcGIS Developer Subscription

Summary: Explore the Python scripting language and its usefulness for automating ArcGIS Pro workflows.

22. Using Business Analyst Web

Product: ArcGIS apps

Summary: Combine demographic, consumer, and business data to perform on-demand analysis and create presentation-ready reports and maps.

23. Discovering Patterns Using Insights for ArcGIS

Product: ArcGIS apps

Summary: Learn to use Insights for ArcGIS to explore data, discover patterns, and derive insights.

24. Monitoring Activity Using Operations Dashboard

Product: ArcGIS apps

Summary: Display multiple views that work together on a single screen. Dashboards offer a comprehensive and engaging view of your data to provide key insight for at-a-glance decision-making.

