Table of Contents

Esri resources for your organization

Course introduction

Course introduction
Course goals
Installing the course data
Icons used in this workbook
Understanding the ArcGIS platform

1 Sharing and Web GIS

Lesson introduction
Sharing within your organization
Portals
Comparing ArcGIS Enterprise and ArcGIS Online
Compare the ArcGIS portals
Content sharing
Portal members
Identify portal member roles
Exercise 1: Share web layers using an ArcGIS Enterprise portal
  Sign in to your organization’s portal
  Share organizational content
  Discover additional web layers
Lesson review
Answers to Lesson 1 questions

2 Sharing with ArcGIS Pro

Lesson introduction
Sharing GIS content
ArcGIS Pro sharing options
Content sharing
Copied and referenced data
Sharing web layers with ArcGIS Pro
Exercise 2A: Share a web map
  Sign in to your portal account
  Add content to your map
  Share content to your portal
Choosing between copied and referenced data
ArcGIS Enterprise supported layers
Exercise 2B: Explore item details in the Enterprise portal
  Validate the web map
  Explore item details
  Configure the editing settings
Sharing content
Answers to Lesson 2 questions

3 Sharing user-managed content

Lesson introduction
What is user-managed content?
Enabling user-managed content in ArcGIS Enterprise
Checkpoint
Types of layers for user-managed content
Managing feature layers and map image layers
Exercise 3: Share user-managed content
  Validate the database registration
  Publish a feature layer
  Publish a map image layer
  Add new layers to a web map
  Add new features to a feature layer
  Verify edits to source data
Sharing map image layers or feature layers
Lesson review
Answers to Lesson 3 questions

4 Analysis in the ArcGIS Enterprise portal

Lesson introduction
Analysis in the Enterprise portal
Data sources
Choosing feature collection or hosted feature layer
Exercise 4: Conduct analysis in the portal
  Add .csv to your web map
  Merge the data layers
  Use analytical results for additional analysis
  Challenge: Perform further portal analysis
Portal analytical functionality
Lesson review
5 Sharing custom analysis

Lesson introduction
Custom web tools and geoprocessing packages
Web tools and geoprocessing packages
Web apps
Exercise 5: Use a custom geoprocessing tool in a configurable web app
  Share a custom geoprocessing tool
  Create a custom web app
  Use the custom web app
Configurable web apps
Lesson review
Answers to Lesson 5 questions

6 Sharing packages

Lesson introduction
What is a project package?
Sharing packages outside an organization
Using project packages
Exercise 6: Create a project package
  Consolidate your project content
  Analyze your project package
  Share your project package
Lesson review
Answers to Lesson 6 questions

7 Sharing imagery

Lesson introduction
Elements of imagery
Raster function templates
Exercise 7A: Share a raster function-enabled imagery layer
  Explore an image layer
  Apply a raster function
  Save a raster function template
  Share a web imagery layer
  View the new web imagery layer in the portal
Applying multiple raster function templates to an image layer
Workflow review
Exercise 7B: Use raster functions in ArcGIS Enterprise
   Examine the web imagery layer
   Update the image display
   Apply a raster function to a web imagery layer
   Save a function result as a new raster layer
Lesson review
Answers to Lesson 7 questions

8 Optimizing map display through caching

Lesson introduction
Tile layers and tile packages
What is the advantage of caching?
Plan and optimize tile layers
Exercise 8: Share a vector tile layer
   Verify map settings before sharing
   Prepare a map to share as a vector tile layer
   Share a vector tile layer
   Examine the vector tile layer in the portal
   Challenge: Publish a tile package as a tile layer
Lesson review
Answers to Lesson 8 questions
Exercise 8 challenge solution

9 Using web apps and presentations

Lesson introduction
Extending your web map
Presentations
Creating presentations
Configurable apps
Choosing configurable app templates
Web AppBuilder for ArcGIS
Exploring the functionality of Web AppBuilder for ArcGIS
Exercise 9: Create a configurable app
   Create web maps
   Create a web app
   Share your web app
Lesson review
Sharing GIS content using ArcGIS portals
Answers to Lesson 9 questions

Appendices

Appendix A: Esri data license agreement
Appendix B: Answers to lesson review questions
Appendix C: Additional resources