Course introduction

Introduction
Course goals
Additional resources
Installing the course data
Icons used in this workbook
Understanding the ArcGIS Platform

1 The ArcGIS platform

Lesson introduction
Advantages of the ArcGIS platform
Portals
ArcGIS Enterprise and GIS services
Organizing a workflow
Using a portal
Exploring portals
Web maps
Creating a web map
Exercise configuration
Exercise 1: Create a web map
  Sign in to Portal for ArcGIS
  Create a web map
  Configure layer symbology
  Add labels and a filter
  Configure layer pop-ups
  Save and share the map
Lesson review

2 Publishing to the platform

Lesson introduction
Workflow: Publishing services
Service protocols
Exploring the ArcGIS platform
Data sources
Registration types
Registering a data source
Data source permissions
Exercise 2: Publish to the ArcGIS platform
  Register the data source
  Author a map
  Publish a map service
  Add a map service to a web map
Lesson review
3  Sharing published content
Lesson introduction
Publishing and sharing content
Workflow for sharing
Choosing with whom to share
Sharing content in Portal for ArcGIS
Exercise 3: Share content using Portal for ArcGIS
   Create a group
   Add content to a group
   Share group content
Lesson review

4  Publishing map services
Lesson introduction
Map service workflow
How dynamic map services work
Guidelines for authoring map services
Publishing a map service
Exercise 4A: Author, publish and use a map service
   Author the map
   Publish the map
   Use the map service
Cached map services
Map cache workflow
Tile packages
Applying the caching workflow
Exercise 4B: Build and apply a map cache
   Prepare the map
   Publish a cached map service
   Test the cached map service
   Combine map services
Lesson review

5  Publishing feature services
Lesson introduction
Sharing features
What type of service would you publish?
Feature service workflow
Publishing a feature service
Exercise 5: Publish and use a feature service
   Prepare the feature service
   Configure the feature service
   Publish the feature service
Apply the feature layer
Use the feature layer

Lesson review

6 Enabling feature service editing

Lesson introduction
Preparing data for editing
Creating feature templates
Enabling feature attachments
Publishing a feature service for editing
Enabling feature service operations
Which operations do you enable?
Exercise 6: Configure a feature service for editing (ArcMap)
  - Create a feature template
  - Publish a feature layer
  - Modify the web map
  - Create an editable web application
  - Apply edits to a feature service

Lesson review

7 Creating and sharing web apps

Lesson introduction
Types of apps
Configurable apps
Web AppBuilder for ArcGIS
Building a configurable app
Exercise 7: Build a web app
  - Review web app requirements
  - Create a new web app
  - Apply a theme, style, and layout
  - Configure a web map
  - Add functionality
  - Apply branding to the app
  - Preview and launch the app

Lesson review

8 Publishing image services

Lesson introduction
Image services
Preparing to publish an image service
Publishing an image service
Building pyramids and caches
Should I publish an image service?
Raster functions
Publishing an image service

Exercise 8: Publish an image service
- Prepare the map document
- Create raster function templates
- Publish an image service
- View the image service in Portal for ArcGIS

Lesson review

9 Publishing geocode services

Lesson introduction
- Creating a locator
- Publishing a locator
- Using a geocode service
- Creating and publishing a locator

Exercise 9: Publish a geocode service
- Create a locator
- Publish the locator as a service
- Use the geocode service in the search widget

Lesson review

10 Publishing geoprocessing services

Lesson introduction
- Using analysis tools
- Geoprocessing services
- Authoring and running a model
- Publishing geoprocessing results
- Using geoprocessing services
- Publishing a model as a service

Exercise 10: Publish a geoprocessing model
- Publish a geoprocessing service
- Create a web app
- Test the geoprocessing task

Lesson review

Appendixes

Appendix A: Esri data license agreement
Appendix B: Answers to lesson review questions
Lesson 1: The ArcGIS platform
Lesson 2: Publishing to the platform
Lesson 3: Sharing published content
Lesson 4: Publishing map services
Lesson 5: Publishing feature services
Lesson 6: Enabling feature service editing
Lesson 7: Creating and sharing web apps
Lesson 8: Publishing image services
Lesson 9: Publishing geocode services
Lesson 10: Publishing geoprocessing services