Quality Control Using ArcGIS® Data Reviewer for Desktop
1 Introduction
Quality Control Using ArcGIS Data Reviewer for Desktop
Welcome to Esri Training
Course goals
Mapping and Charting Solutions for ArcGIS Desktop
Author – Share - Use
ArcGIS Data Reviewer in the Platform
Course materials
Introductory Demonstration
Exercise introduction

2 Data Quality Matters
Data Quality Matters
Learning objectives
Think about…
Importance of data quality
Extreme implications
Elements of data quality
Name the data quality issue
Sources of quality requirements
Defining Quality Control (QC)
Defining Quality Assurance (QA)
What is a Quality Assurance Plan?
Lesson review

3 Understanding ArcGIS Data Reviewer
Understanding ArcGIS Data Reviewer
Learning objectives
Think about…
ArcGIS Data Reviewer for Desktop
ArcGIS Data Reviewer for Server
Quality Control Review Stages
ArcGIS Data Reviewer
Components of ArcGIS Data Reviewer
Defining the Reviewer workspace
Defining Reviewer sessions
Organizing Reviewer sessions
Session Properties
Toolbars during a review
Introducing the Reviewer table
Exercise introduction (30 minutes)
Lesson review

4 The Reviewer table
The Reviewer Table
Learning objectives
Think about…
The Reviewer table
Reviewer Table fields
User-defined review fields
Lifecycle Phase
Reviewer Geometry vs. Feature Geometry
Symbolizing results
Organizing the table
Table Templates
Importing/Exporting
Instructor-led demo
Exercise introduction (30 minutes)
Lesson review

5 Automated Data Checks
Automated Data Checks
Learning objectives
Think about…
General QC Workflow
Determine business needs
Technical requirements
Checks in ArcGIS Data Reviewer
Activity
Data Check Categories
Which check should be used?
Industry: Water Utilities
Industry: Hydrography
Industry: Facility Management
Industry: Land Use Planning
Activity
Instructor-led demo
Exercise introduction (45 minutes)
Lesson review

6 Batch Review
Batch Review
Learning objectives
Think about…
Batch jobs
ArcGIS Resource Center
Process for designing a batch job
Batch job groups
Duplicate check generator
Sharing Batch Jobs
Using Batch Jobs
Running batch jobs
Instructor-led Demo
Exercise introduction (45 minutes)
Lesson review

7 Automating Data Validation
Automating Data Validation
Learning objectives
Think about…
Triggers for data validation
Time-based triggers for data validation
Event-based triggers for data validation
Think about…
Scheduling automated validation on Desktop
Create and schedule tasks
Instructor-led Demo
Scheduling automated validation on Server
Integrate QC into macro-workflows
Lesson Review
Exercise

8 Using Geoprocessing and Python to Generate Results
Using Geoprocessing and Python to Generate Results
Learning objectives
Think about…
Data Reviewer geoprocessing tools
Write to Reviewer Table GP tool
Workflow leveraging GP and Python
Sample workflow: Geoprocessing
Sample workflow: Python
Automate and manage results holistically
Exercise: Leverage model to perform data validation
Model used to Write to Reviewer table
Exercise introduction (30 Minutes)
Lesson Review
9 Visual Review
   Visual Review
   Learning objectives
   Think about…
   Why perform visual review?
   Options for Visual Review
   Generate a sample for review
   Manual Visual QC: Tracking the review
   Instructor-led demo
   Writing results to the Reviewer table
   Redlining
   Instructor-led demo
   Identifying differences in versioned workspaces
   Reviewing attribution
   Exercise introduction (45 minutes)
   Lesson review

10 Correction, Verification and Reporting Results
   Correction, Verification and Reporting Results
   Learning objectives
   Think about…
   Updating the correction status
   Use Reviewer geometry to guide corrections
   Marking exceptions
   Updating the verification status
   Data Reviewer Descriptions
   Data Reviewer reporting
   Automated check reports
   Reports by total record count and sampling
   Reviewer table statistics
   ArcGIS Data Reviewer for Server
   Exercise introduction (40 minutes)
   Lesson review

11 Evaluate geospatial layers using the PAAT
   Positional Accuracy Assessment Tools
   Learning objectives
   Think about…
   Common GIS data alignment challenges
   Benefits of using the PAAT
   Required Layers
   Examples of when to use PAAT
   Determine point accuracy using PAAT
   How many point locations should I select?
If sample size is NOT mandated by specification
Specification mandates sample size
Interpreting session results
Reporting
Exercise introduction (35 minutes)
Lesson review