GIS Fundamentals Foundation

2201

Exam Details:

GIS Fundamentals Foundation

- Exam Questions: 65
- Exam Type: Core
- Exam Format: Multiple Choice
- Exam Language: English
- Exam Cost: $250 USD

Exam Purpose:

The GIS Fundamentals Exam tests the candidate's knowledge and ability to apply ArcGIS concepts. Qualified candidates should demonstrate comprehension of basic GIS concepts within ArcGIS at an entry-level. Candidates should perform entry-level mapping and visualization tasks, sharing, and analysis.

Target Candidate Audience:

The GIS Fundamentals exam is intended for candidates with beginner level GIS experience:

- Students taking GIS coursework
- Candidates seeking a GIS internships or entry-level positions
- New Geospatial Analysts
- Developers creating applications for GIS programs

Description of Qualified Candidate:

The GIS Fundamentals Exam is designed for candidates with 100 hours of GIS coursework or 3-6 months of GIS workplace experience. Qualified candidates should demonstrate comprehension of basic GIS vocabulary and concepts. Candidates should be able to perform entry-level mapping, visualization, and analysis using ArcGIS Pro and ArcGIS Online. In addition, candidates should be able to share and discover content within ArcGIS Online.

CANDIDATE QUALIFICATIONS

A qualified candidate should be able to perform the following tasks:

- Identify data types (e.g., Vector vs Raster)
- Identify which application to use (e.g., ArcGIS online vs Pro, online applications)
- Use Map Viewer and Scene Viewer in ArcGIS Online
- Use navigation tools in ArcGIS Pro and Map Viewer
- Identify coordinate units (e.g., meters, DD, DMS)
- Describe coordinate systems
- Navigate window panes
- Change layer symbology
- Describe a map scale
- Add data to maps
- Use attribute tables
- Identify different tools sets for navigation, editing and geoprocessing (e.g., tool types)
- Save and share maps to or within ArcGIS Online
- Discover content in ArcGIS Online

A qualified candidate should NOT be familiar with the following:

- Use GPS
- Use Raster data
- Use Python
- Create configurable applications (e.g., StoryMaps, Dashboards, Experience Builder, Web AppBuilder)
- Identify file formats
- Use of mobile applications (e.g., field maps, surveys 123 etc.)

A qualified candidate should be familiar with the following tools:

- Navigation tools (e.g., Explorer tools, Add data, Select, Search etc.)

SKILLS MEASURED

Candidates should fully prepare for testing using the exam content sections below as a checklist to identify possible gaps between their knowledge and the skills measured by the exam. The relative weight illustrates the approximate size of each section. It is recommended that focused preparation should be in areas where any knowledge gaps are found.

Ingesting   18%

- Identify steps to add data
- Identify data types
- Identify coordinate systems

Authoring   37%

- Define fundamental GIS concepts
- Demonstrate how to use Map tools
- Identify steps to change Basemaps
- Demonstrate how to style data
- Identify steps to generate labels
- Identify uses for ArcGIS Online web applications

Processing   30%

- Demonstrate how to use attribute tables
- Demonstrate how to perform analysis
- Edit Layer Properties in ArcGIS Pro
- Demonstrate how to edit data
- Validate map for sharing content in ArcGIS Pro

Sharing   15%

- Share content from ArcGIS Pro
- Discover content in ArcGIS Online
- Organize content in ArcGIS Online

RESOURCES

These training resources along with the list of exam objectives may be used to identify appropriate training options for any possible knowledge gaps but are not required.

The Esri curated exam Learning Plan is updated continually based on Esri Academy courses and the content retirement schedule.

Please note that completing the recommended training courses does not guarantee a passing score on a specific certification exam.

LEARNING PLAN

- [Esri GIS Fundamentals Foundation Certification 2201](#)