

GIS Fundamentals Foundation 2024

IN DEVELOPMENT

Exam Details:

GIS Fundamentals Foundation 2024

- Exam Questions: 75
- Exam Duration: 1 Hour, 30 Minutes
- Exam Type: Operational
- Exam Format: Multiple Choice
- Exam Language: English
- Exam Cost: \$250 USD
- Exam State: In development and will be published 22 April 2024.

Exam Purpose:

The GIS Fundamentals Foundation 2024 Exam tests the candidate's knowledge and ability to apply ArcGIS® concepts. The exam will assess candidates' ability to perform entry-level tasks such as: mapping and visualization, editing, data management, analysis, and sharing.

Target Candidate Audience:

The GIS Fundamentals Foundation 2024 exam is intended for candidates with beginner level GIS experience:

- Students taking GIS coursework
- Candidates seeking a GIS internships or entry-level positions
- Entry-Level GIS/Geospatial Analysts
- Non-GIS professionals wishing to demonstrate competency in GIS fundamentals

Description of Qualified Candidate:

The GIS Fundamentals Foundation 2024 Exam is designed for candidates with 150 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, editing, data management, and analysis using ArcGIS Pro and ArcGIS Online. In addition, candidates should be able to share to 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
- Identify coordinate units (e.g., meters, DD, DMS)
- Describe coordinate systems
- Basic spatial/attribute queries
- Navigate ArcGIS Pro and ArcGIS Online interfaces
- Change layer symbology
- Describe a map scaling
- Add data to maps from a variety of sources (such as geodatabases, geocoding, and portals)
- Use attribute tables
- Identify different geoprocessing toolsets
- Save and share maps to or within ArcGIS Online
- Discover content in ArcGIS Online
- Edit features (e.g., create, modify etc.)

A qualified candidate should NOT be familiar with the following:

- Use GPS
- Process raster data
- Use Python/Model Builder
- 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.)
- 3D data

A qualified candidate should be familiar with the following tools:

- ArcGIS Online (workflows as of October 2023)
- ArcGIS Pro (3.x)
- Living Atlas

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.

Data Discovery 35%

- Identify steps to add data
- Identify data types
- Identify coordinate systems
- Define fundamental GIS concepts
- Discover content in ArcGIS Online
- Describe how to use map navigation tools

Processing and Analysis 22%

- Describe how to use attribute tables
- Recall how to perform analysis
- Recall how to edit local data in ArcGIS Pro

Mapping and Visualization 25%

- Identify steps to change Basemaps
- Recognize how to represent and style data
- Identify steps to generate labels
- Identify layer properties in ArcGIS Pro and ArcGIS Online

Managing and Sharing Content 18%

- Describe how to validate a map for sharing content from ArcGIS Pro
- Organize content in ArcGIS Online
- Identify elements of ArcGIS Online

RESOURCES

To help prepare for the exam, we recommend candidates use the training resources below, along with the list of exam objectives, to identify and fill any knowledge gaps. Completing the recommended training courses does not guarantee a passing score on a certification exam.

The Esri-curated learning plan for this exam is updated regularly to reflect the latest Esri Academy resources and resource retirement schedules.

ESRI ACADEMY

- [Exam Description Page](#)
- [Exam Preparation Video](#)
- [GIS Fundamentals Foundation Certification 2024 Learning Plan](#)

ESRI COMMUNITY

- [Esri Technical Certification](#)
- [Welcome to our Esri Community place](#)
- [Esri Exam Preparation Resources](#)
- [Primary Exam Article](#)
- [Exam Version Article](#)

LINK TO ARCGIS DOCUMENTATION

- [ArcGIS Documentation](#)