

# GIS Fundamentals Foundation 2024



## Exam Details:

GIS Fundamentals Foundation 2024

Exam Questions: 75

Exam Type: Operational

Exam Format: Multiple Choice

Exam Language: English

Exam Cost: \$250 USD

## 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:

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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:

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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:

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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%

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- 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%

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

## Mapping and Visualization 25%

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- 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%

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

### ESRI ACADEMY

[Exam Description Page](#)

[Exam Preparation Video](#)

[GIS Fundamentals Foundation Certification 2024 Learning Plan](#)

### ESRI COMMUNITY

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[Primary Exam Article](#)

[Exam Version Article](#)

### LINK TO ARCGIS DOCUMENTATION

[ArcGIS Documentation](#)