ArcGIS API for Python 2024 - Beta

2024

Exam Details:

ArcGIS API for Python Associate 2024

- Exam Questions: 75
- Exam Type: Beta
- Exam Format: Multiple Choice
- Exam Language: English
- Exam Cost: $250 USD

Exam Purpose:

The ArcGIS API for Python Associate Beta exam tests the candidate's experience with the ArcGIS API for Python. This exam validates skills related to GIS administration, content management, visualization, and analysis.

Target Candidate Audience:

The ArcGIS API for Python exam is for candidates who are experienced using ArcGIS API. Data analysts, data scientist, GIS professionals, or web GIS users and administrators seeking to demonstrate knowledge and application of the ArcGIS API for Python.

Description of Qualified Candidate:

The ArcGIS API for Python Associate exam tests the candidate's experience with the ArcGIS API for Python. Candidates should have two to four years of experience and demonstrate proficiency when using the API for web GIS administration, analysis, visualization, and editing.

CANDIDATE QUALIFICATIONS

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

- Publish and overwrite
- Clone content
- Manage users
- Manage content
- Manage groups
- Create views
- Retrieve data from web GIS layers
- Analyze patterns
- Access feature attribute
- Use imagery
- Perform spatial analysis
- Use Pandas (ex: table filter, dataframe manipulation, select records based on criteria, etc.)
- Add layers to a map
- Build webmap
- Display webmap
- Add content to webmap/webscenes
- Edit features and records
- Conceptual knowledge surrounding package management

A qualified candidate should NOT be familiar with the following:

- Set up Jupyter notebook server
- Distributed collaboration
- Deep-learning related tech
- Jupyter Lab environment
- Tasks requiring a license (network analysis,
- Install and setup of Python environment (Conda, Notebook, etc.)
- ArcPy
- Clone users, groups
- Advanced data structures (abstract syntax trees)
- Syntax of methods
- Knowledge of third-party libraries other than Pandas
- Raster analysis
- ArcGIS Pro

A qualified candidate should be familiar with the following tools:

- ArcGIS API for Python version: 2.1.0.3 (March 6, 2023 release.)
- ArcGIS Online
- ArcGIS Enterprise

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.

Administration   ==Pending Beta Results==

- Identify portal/organization settings
- Identify techniques for managing items, groups, and users
- Given a scenario, use the GIS module to manage items, groups, and users

Content Management   ==Pending Beta Results==

- Identify tools for managing content
- Describe the process for managing content
- Given a scenario, use the GIS, features, mapping, and widgets modules to create and edit web map layers
- Given a set of requirements, use the GIS or features module to publish items

Visualization   ==Pending Beta Results==

- Identify tools for creating and editing web map layers
- Identify strategies for visualizing non-spatial data
- Given a scenario, use the GIS, features, and mapping modules to visualize map content

Analyze   ==Pending Beta Results==

- Given a scenario, identify the appropriate type of analysis
- Given a scenario, use the geoenrichment, geocode, geometry, features, network and raster modules to analyze data
- Given a dataset, use Spatially-Enabled DataFrames to conduct analysis (GeoAccessor, GeoSeriesAccessor, pandas DataFrame)

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](#)
- [ArcGIS API for Python Associate Certification 2024 Learning Plan](#)

ESRI COMMUNITY

- [Esri Technical Certification](#)
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- [Primary Exam Article](#)
- [Exam Version Article](#)

LINK TO ARCGIS DOCUMENTATION

- [ArcGIS Documentation](#)