EXAM INFORMATION GUIDE

ArcGIS Desktop Associate

19-001

esri | THE SCIENCE OF WHERE®

EXAM DESCRIPTION

Exam Details:

ArcGIS Desktop Associate 19-001

- Exam Questions: 80
- Exam Type: Core
- Exam Format: Multiple Choice

- Exam Language: English
- Exam Cost: $250 USD

Exam Purpose:

The ArcGIS Desktop Associate exam tests candidates' experience applying ArcGIS concepts and processes to workflows. Qualified candidates should have two or more years of applied experience using the ArcGIS platform. Candidates should be skilled at using ArcGIS to visualize, manage, and analyze geospatial data.

- [Exam Catalog Description](#)

Target Candidate Audience:

The ArcGIS Desktop Associate exam tests the candidate's experience applying ArcGIS concepts and processes to workflows. Candidates should demonstrate proficiency when using ArcGIS to visualize, manage, and analyze geospatial data. Qualified candidates should have two or more years of applied experience and should be proficient in best practices and uses of ArcGIS platform.

- [Digital Badge Details](#)

Eligibility Requirement:

This is a core exam, there are no eligibility requirements to register for any level of core exams. Test takers must pass a core exam before registering for a specialty exam.

Description of Qualified Candidate:

The ArcGIS Desktop Associate exam measures a candidate's comprehension of ArcGIS concepts, including ArcGIS Platform competency. It is recommended the candidate have two or more years of applied experience using ArcGIS. Candidates should be able to implement principles of sharing content, performing analysis, data management, editing 2D and 3D features, and mapping and visualization across the ArcGIS Platform. Passing the exam provides an opportunity for candidates to validate their technical expertise in implementing ArcGIS Desktop best practices.

CANDIDATE QUALIFICATIONS

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

- Apply advanced map visualization including quantitative, qualitative, raster, and 3D, and cartographic methods and techniques

- Construct a map using available datasets and services

- Create new spatial datasets from analysis of existing datasets

- Apply local and global raster functions

- Select appropriate geoprocessing environment settings for a given scenario

- Work with layer properties and tables

- Apply 2D and 3D editing workflows

- Use editor tracking

- Compare and contrast the basic types of geographic data

- Select the datasets necessary to perform a specific analysis

- Share data across the ArcGIS platform

- Convert data from different formats

- Evaluate the suitability of a dataset

- Manipulate data between different projections

- Apply established workflows to correct issues with projections and transformations in ArcGIS Desktop

- Manipulate time-enabled data

- Author Python expressions from a list of available functions

- Create a model for a repeatable process

- Use an existing model or script

- Use ArcGIS Pro Tasks

- Use web app templates and Web AppBuilder

A qualified candidate should NOT be expected to perform the following tasks:

- Administer a database

- Administer ArcGIS Enterprise

- Author Tasks

- Create advanced data structures

- Troubleshooting computer/network systems upon which ArcGIS Desktop is implemented

- Python programming

- ArcGIS Extensions

A qualified candidate should be familiar with the follow tools:

- ArcGIS Pro

- ArcGIS Online

- ArcGIS Enterprise

- ArcGIS Collector

SKILLS MEASURED

The following list will familiarize candidates with the exam sections to help guide exam preparation. The relative weight of each section is provided to illustrate the approximate size of each section. Candidates should review this list and assess their knowledge of each skill. Specific preparation resources are available to assist with refreshing in areas where any knowledge gaps are found.

Data Management   35%

- Compare and contrast various types of vector and raster datasets supported in ArcGIS

- Choose and apply an appropriate coordinate system to preserve the desired spatial properties

- Given a scenario, determine how to migrate data to a file geodatabase, feature class, or table

- Apply spatial and attribute data validation

- Given a scenario, determine how the ArcGIS Platform components and geodatabase types are used to manage data

- Given a scenario, determine the appropriate existing geodatabase elements to use

- Manage raster data, tabular data, and vector data

- Manage metadata and item details

Data Manipulation 17%

- Use the ArcGIS platform's editing functionality to create, modify, and delete 2D and 3D data

- Resolve the root cause of a data alignment problem

- Given a scenario, apply a SQL query

- Determine how to repair the link between a layer and its data source

- Troubleshoot data anomalies with tabular and vector data

Visualization 14%

- Identify how to control the coordinate system and geographic transformation in ArcGIS Desktop

- Manage layer properties

- Determine how to visualize temporal, ranged, or 3D data

Sharing 14%

- Identify how to export data, maps, and scenes to different formats

- Choose how to share content across the ArcGIS Platform

- Identify the purpose of metadata, item description, and other properties for sharing

- Determine how to create and manage map layouts and map books

Analysis & Geoprocessing   20%

- Compare the functionality of table joins and relates, relationship classes, and spatial joins.

- Given a scenario, determine the appropriate geoprocessing tool to use.

- Given a scenario, use tasks, batch processing, models, or scripts to execute a complex workflow

- Identify analysis tools available from the connected portal

- Apply raster functions for raster processing

EXAM RESOURCES

The following training resources are available to help you prepare for your exam but are not required.

Please utilize this list of preparation resources with the list of "skills measured" topics so you can identify appropriate training options for any possible knowledge gaps.

The Esri curated Learning Plan for this exam is updated continually based on the Training Services course and content retirement schedule.

Please note that completing the recommended training courses does not guarantee that you will achieve the requirements for a specific certification exam.

ESRI LEARNING PLAN

- Esri ArcGIS Desktop Associate Certification 19-001

BOOKS AND ADDITIONAL SOURCES

- The ArcGIS Book - 10 Big Ideas about Applying the Science of Where

- Getting to Know ArcGIS second edition