

# ArcGIS® Maps SDK for JavaScript™ Associate 2024

IN DEVELOPMENT - PENDING BLUEPRINT SURVEY

## Exam Details

ArcGIS Maps SDK for JavaScript Associate 2024

- Exam Questions: 75
- Exam Duration: 1 Hour, 30 Minutes
- Exam Format: Multiple Choice
- Exam Language: English
- Exam Cost: \$250 USD
- Exam State: In development pending the blueprint survey opening 24 April to 15 May 2024. [Visit Esri Community](#) to learn more about this exam and how to participate in exam development.

## Exam Purpose

The ArcGIS Maps SDK for JavaScript exam evaluates the candidate's experience developing apps using ArcGIS Maps SDK for JavaScript. This exam validates skills related to visualization, analysis, programming patterns, and UI/UX.

## Target Candidate Audience

GIS developers and GIS professionals with JavaScript Maps SDK experience who want to demonstrate proficiency using the JavaScript Maps SDK to develop web applications. The target audience may include candidates who have the following or similar roles: Geospatial developers, IT admins, etc.

## Description of Qualified Candidate

Qualified candidates should have at least two to four years of experience and demonstrate proficiency using the JavaScript Maps SDK to build web apps that leverage core programming patterns and integrate with ArcGIS.

# CANDIDATE QUALIFICATIONS

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

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- Configure symbology
- Create visualizations
- Familiarity with analysis capabilities (geometry engine)
- Mapping
- Editing
- Implement different renderers
- Configure popups
- Usage of LayerList/BasemapGallery/Print etc.
- Access ArcGIS Enterprise portal or ArcGIS Online items
- Detect changes in the View
- Query for data based on attributes and/or geometry
- Differentiate between querying a layer and a LayerView
- Programmatic navigation (e.g. bookmarking an extent inside of an application (go to))
- Add layers
- Authenticate a user through a portal
- Configure widgets
- Search Widget
- Calcite + components
- Programming patterns
- Location services
- Handle events
- Understanding of 2D and 3D mapping functionalities

A qualified candidate should NOT be familiar with the following:

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- Familiarity of using OAuth etc.
- Using SketchViewModel
- Custom printing
- Custom labeling
- Custom frameworks
- Geoprocessor class
- Open source development

A qualified candidate should be familiar with the following:

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- ArcGIS Online (June 2021) or ArcGIS Enterprise (10.9.1)
- ArcGIS Services Directory
- JavaScript Maps SDK 4.20x

## 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 indicates the approximate size of each section. It is recommended that focused preparation be in areas where knowledge gaps are found.

### Visualization

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- Visualize map data using renderers and symbology
- Implement textual characters and label features in a map
- Visualize server and client-side data
- Describe how to add items from ArcGIS Online/ArcGIS Enterprise to a web application
- Create or modify features and attributes using editing/drawing/sketching

### Analysis

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- Query or filter based on attribute data and geometry
- Utilize spatial analysis (geometry/feature)
- Describe geocode location services
- Describe routing services

### Programming Patterns

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- Explain event handling
- Utilize asynchronous and synchronous JavaScript Maps SDK methods
- Implement security and authentication in an app
- Implement widgets and components (pop-ups, web components, layer list, etc.)

### UI/UX

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- Navigate a view in 2D and 3D
- Recognize the View.UI layout pattern
- Understand design and development resources (Calcite, styling, UI elements, etc.)

# 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](#)
- [ArcGIS Maps SDK for JavaScript Associate 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](#)