

Authoring Visual Analytics Using Amazon QuickSight

Course Duration: 16 Hours

Course Code: AQ-101

1. Course Overview

This course provides a comprehensive understanding of Amazon QuickSight, a cloud-powered business intelligence service, enabling you to create interactive dashboards, visualizations, and data-driven insights. Participants will learn how to connect to multiple data sources, build reports, and share analytics securely across the organization.

2.2. What You'll Learn

- How to navigate the Amazon QuickSight interface efficiently.
- Connect to various data sources and prepare datasets for analysis.
- Create interactive visualizations, dashboards, and stories.
- Apply filtering, calculations, and advanced analytics techniques.
- Share insights securely with stakeholders and monitor usage.
- Optimize performance and manage QuickSight resources effectively.

3.3. Target Audience

- Business analysts and data analysts.
- Data engineers interested in visual analytics.
- IT professionals responsible for business intelligence solutions.

- Anyone looking to enhance data visualization and reporting skills using Amazon QuickSight.

4. Pre-Requisites

- Basic understanding of data analysis and visualization concepts.
- Familiarity with cloud computing and AWS fundamentals is beneficial.
- Knowledge of SQL and data modeling is helpful but not mandatory.

5. Course Content

Module 1: Introduction to Amazon QuickSight

- Overview of QuickSight features and architecture
- Navigating the QuickSight interface

Module 2: Connecting to Data Sources

- Supported data sources and connections
- Importing and preparing datasets

Module 3: Creating Visualizations

- Building charts, tables, and graphs
- Applying filters, parameters, and calculations

Module 4: Designing Dashboards and Stories

- Dashboard layout best practices
- Creating interactive stories for presentations

Module 5: Advanced Analytics

- Using SPICE for fast data analysis
- Applying machine learning insights and forecasting

Module 6: Sharing and Collaboration

- Managing permissions and access controls
- Publishing dashboards and embedding analytics

Module 7: Performance Optimization and Best Practices

- Optimizing datasets and visualizations
- Monitoring usage and cost management

