

CLOUD

INTERMEDIATE

2 DAYS

AWS Certified Data Analytics Specialty

Build a strong foundation in data analytics and advanced analytics on AWS, covering data storage, processing, analysis, and machine learning services. Learn how to design secure, scalable, and optimized analytics solutions while preparing for the AWS Data Analytics Specialty certification.

Why AWS Data Analytics?

Expertise in designing and implementing data solutions

These professionals have the expertise to design and implement scalable, cost-effective, and secure data solutions on AWS, which can help your business to optimize its data infrastructure.

Cost optimization

AWS Certified Data Analytics- Specialty-certified professionals can help your business to optimize its data infrastructure by using cost-effective AWS services and solutions.

Improved decision-making

The data analytics solutions designed by AWS Certified Data Analytics- Specialty certified professionals can help your business to make data-driven decisions, which can lead to improved business outcomes.

What you'll be able to do

- ✓ Understanding the various data analytics services provided by AWS.
- ✓ Understanding how to store and manage data using AWS services like Amazon S3 and Amazon Glacier.
- ✓ Understanding how to process data using AWS services like AWS Glue, Amazon Kinesis, and Amazon EMR.
- ✓ Understanding how to perform data analysis using AWS services like Amazon QuickSight, Amazon SageMaker, and Amazon Machine Learning.
- ✓ Understanding advanced analytics concepts like predictive analytics and machine learning, and how to implement them using AWS services.
- ✓ Understanding how to ensure security and compliance of data and analytics workloads in AWS.
- ✓ Understanding how to design and optimize data analytics solutions on AWS.
- ✓ Preparing for the AWS Certified Data Analytics- Specialty certification exam, including review of exam topics and practice questions.

Who this is for

- Any learner who has a minimum of 5 years of experience with common data analytics technologies
- Any learner having at least 2 years of hands-on experience and expertise working with AWS services to design, build, secure, and maintain analytics solutions
Data scientists Data analysts Data engineers

- IT professionals who are involved in designing and implementing data analytics solutions

Curriculum

01 Collection

- Determine the operational characteristics of the collection system
- Select a collection system that handles the frequency, volume, and source of data
- Select a collection system that addresses the key properties of data, such as order, format, and compression

02 Storage and Data Management

- Determine the operational characteristics of the storage solution for analytics
- Determine data access and retrieval patterns
- Select the appropriate data layout, schema, structure, and format
- Define data lifecycle based on usage patterns and business requirements
- Determine the appropriate system for cataloging data and managing metadata

03 Processing

- Determine appropriate data processing solution requirements
- Design a solution for transforming and preparing data for analysis
- Automate and operationalize data processing solutions

04 Analysis and Visualization

- Determine the operational characteristics of the analysis and visualization solution
- Select the appropriate data analysis solution for a given scenario
- Select the appropriate data visualization solution for a given scenario

05 Security

- Select appropriate authentication and authorization mechanisms
- Apply data protection and encryption techniques
- Apply data governance and compliance controls