

# Exam Readiness: AWS Certified Data Analytics – Specialty

## AWS Classroom Training

### Course description

This course prepares you to take the AWS Certified Data Analytics – Specialty exam, which validates your ability to design, implement, deploy, and maintain data analytic solutions.

In this course, you'll learn about the logistics of the exam and the mechanics of exam questions, and you'll explore the exam's technical domains. You'll review core AWS services and key concepts for the exam domains:

- Domain 1 – Data Collection Systems
- Domain 2 – Storage and Data Management Concerns
- Domain 3 – Data Processing Solutions
- Domain 4 – Analysis and Visualization of Analytical Data
- Domain 5 – Security of the Data Analysis System

You'll also learn key test-taking strategies and will put them into action by working through multiple study questions. Once you've honed your skills, you'll have the chance to take a quiz that will help you assess your areas of strength and weakness so that you'll know what to emphasize in your pre-exam studies.

- Course level: Advanced
- Duration: 1 day

### Activities

This course includes presentations, interactive quiz practice, and sample exam questions.

### Course objectives

In this course, you will learn how to:

- Identify your strengths and weaknesses in each exam domain so that you know what to focus on when studying for the exam
- Describe the technical topics and concepts that make up each of the exam domains
- Summarize the logistics and mechanics of the exam and its questions
- Use effective strategies for studying and taking the exam

### Intended audience

This course is intended for:

- IT professionals
- Data platform engineers/data architects
- Data scientists
- Data analysts

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- Solutions architects

## Prerequisites

We recommend that attendees of this course have the following knowledge and experience:

- AWS Certified Cloud Practitioner or an Associate-level AWS certification
- Five or more years of hands-on experience working with complex data analytics processes and analysis solutions on AWS

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### Course outline

#### Module 0: Introduction and Overview

#### Module 1: Domain 1 – Data Collection Systems

- 1.1 Determine the operational characteristics of the collection system
- 1.2 Select a collection system that handles the frequency, volume, and source of data
- 1.3 Select a collection system that addresses the key properties of data, such as order, format, and compression
- Multiple question interactive domain review

#### Module 2: Domain 2 – Storage and Data Management Concerns

- 2.1 Determine the operational characteristics of the storage system for analytics
- 2.2 Determine data access and retrieval patterns
- 2.3 Select an appropriate data layout, schema, structure, and format
- 2.4 Define a data lifecycle based on usage patterns and business requirements
- 2.5 Determine the appropriate system for cataloging data and managing metadata
- Multiple question interactive domain review

#### Module 3: Domain 3 – Data Processing Solutions

- 3.1 Determine appropriate data processing solution requirements
- 3.2 Design a solution for transforming and preparing data for analysis
- 3.3 Automate and operationalize a data processing solution
- Multiple question interactive domain review

#### Module 4: Domain 4 – Analysis and Visualization of Analytical Data

- 4.1 Determine the operational characteristics of the analysis and visualization solution
- 4.2 Select the appropriate data analysis solution for a given scenario
- 4.3 Select the appropriate data visualization solution for a given scenario
- Multiple question interactive domain review

#### Module 5: Domain 5 – Security of the Data Analysis System

- 5.1 Select the appropriate authentication and authorization mechanisms
- 5.2 Apply data protection and encryption techniques
- 5.3 Apply data governance and compliance controls
- Multiple question interactive domain review

#### Module 6: AWS Exam Preparation

- 20 sample exam questions

#### Module 7: Course Review and Wrap-Up