

Description

The *AWS Certified Machine Learning – Specialty* exam validates an individual's ability to design, implement, deploy, and maintain machine learning (ML) or deep learning (DL) solutions for given business problems. This half-day, advanced-level course is intended for individuals with 1) one to two years of experience developing, architecting, or running ML/DL workloads on the AWS cloud; 2) proficiency at expressing the intuition behind basic ML algorithms and performing basic hyper parameter optimization; 3) understanding of complete ML pipeline and its components; 4) experience with ML and deep learning frameworks; and 5) understanding and applying model training, deployment, and operational best practices. In this course, you will explore the exam's topic areas, showing how they relate to machine learning on AWS, and also mapping them to machine learning and deep learning foundational areas for future self-study. The course reviews sample exam questions in each topic area and teaches you how to interpret the concepts being tested so that you can more easily eliminate incorrect responses.

Topics in the course will address each of the exam's four subject domains:

1. Data Engineering
2. Exploratory Data Analysis
3. Modeling
4. Machine Learning Implementation and Operations

Intended Audience

This course is intended for machine learning practitioners who are preparing to take the *AWS Certified Machine Learning – Specialty* exam.

Course Objectives

In this course, you will learn how to:

- Understand the exam structure and question types
- Identify how questions relate to AWS ML services and various ML concepts
- Interpret the concepts being tested by an exam question
- Allocate your time studying for the *AWS Certified Machine Learning – Specialty* exam

Prerequisites

We recommend that attendees of this course have the following:

- One or two years of hands-on experience developing, architecting, or running ML/deep learning workloads on the AWS cloud
- Proficiency at expressing the intuition behind basic ML algorithms and performing basic hyper parameter optimization
- Understanding of complete ML pipeline and its components
- Experience with ML and deep learning frameworks
- Understanding and applying model training, deployment, and operational best practices

Delivery Method

This course is delivered through a mix of:

- Classroom training
- Sample exercise questions

Note: There are no technical lab exercises in this course.

Duration

Half day (four hours)

Course Outline

This course covers the following concepts:

- Testing-center information and expectations
- Exam overview and structure
- Content domains and question breakdown
- Topics and concepts with content domains
- Question structure and interpretation techniques
- Practice exam questions