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AWS

# AWS Certified Machine Learning (Specialty)

Validate your technical skills and grow your career.

An AWS Machine Learning (Specialty) exam helps candidates who usually fulfil a data science or development role.

It shows an individual's competence in designing, implementing, deploying and maintaining machine learning solutions for applicable problems.

## Why Take The AWS Machine Learning (Specialty) Course?

Your certification places you at the front of the line.

Passing the exam will allow you to attain an industry-recognized merit from AWS that says: **you know what you're doing**. It proves to your employer that you have the necessary skills and knowledge to earn top dollar when you work for them.

## Increase Your Salary:

- The average starting salary of an AWS Machine Learning (Specialty) in 2019 was around \$142,000.

## Abilities Validated By The Certification:

- Select and justify the appropriate ML approach for a given business problem
- Identify appropriate AWS services to implement ML solutions
- Design and implement scalable, cost-optimized, reliable, and secure ML solutions

## Recommended Knowledge & Experience:

- 1-2 years of experience developing, architecting, or running ML/deep learning workloads on the AWS Cloud
- The ability to express the intuition behind basic ML algorithms
- Experience performing basic hyperparameter optimization
- Experience with ML and deep learning frameworks
- The ability to follow model-training best practices
- The ability to follow deployment and operational best practices

## Scoring

Domain 1: Data Engineering 20%

Domain 2: Exploratory Data Analysis 24%

Domain 3: Modeling 36%

Domain 4: Machine Learning Implementation and Operations 20%

## Exam Topics:

### ***AWS Certified Machine Learning - Specialty (MLS-C01)***

Domain 1: Data Engineering

- 1.1 Create data repositories for machine learning.
- 1.2 Identify and implement a data-ingestion solution.
- 1.3 Identify and implement a data-transformation solution.

Domain 2: Exploratory Data Analysis

- 2.1 Sanitize and prepare data for modeling.
- 2.2 Perform feature engineering.
- 2.3 Analyze and visualize data for machine learning.

Domain 3: Modeling

- 3.1 Frame business problems as machine learning problems.
- 3.2 Select the appropriate model(s) for a given machine learning problem.
- 3.3 Train machine learning models.
- 3.4 Perform hyperparameter optimization.
- 3.5 Evaluate machine learning models.

Domain 4: Machine Learning Implementation and Operations

- 4.1 Build machine learning solutions for performance, availability, scalability, resiliency, and fault tolerance.
- 4.2 Recommend and implement the appropriate machine learning services and features for a given problem.
- 4.3 Apply basic AWS security practices to machine learning solutions.
- 4.4 Deploy and operationalize machine learning solutions

## Prepare for your exam:

The best way to prepare is with first-hand experience. Taking advantage of the opportunities that Phoenix TS provides will assist you with gathering all the knowledge and skills you'll need for certification.

# Phoenix TS AWS Certified Machine Learning - Learning Pathways

- **Practical Data Science with Amazon SageMaker**

**Course Overview** In this 1-day AWS course, students will learn about the stages of a data science process for Machine Learning. The course will teach students to: Understand a Data Set Identify the aspects of model building Demonstrate the capabilities of Amazon SageMaker Schedule  
**Prerequisites** This course requires some understanding of programming languages. Duration 1 [...]

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- **The Machine Learning Pipeline on AWS**

**Course Overview** In this 4-day AWS course, students will gain knowledge about each stage of the Machine Learning pipeline to solve different business problems and create projects using Amazon SageMaker. The course will teach students: How to use ML to solve different problems Implement an ML model into Amazon SageMaker Apply machine ML to real [...]

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## • **Deep Learning on AWS Training**

Course Overview In this 1-day AWS course, students will learn about Deep learning solutions for the AWS platforms. Students will learn how to use AWS services to perform various operations with their Deep Learning models as well as design systems on AWS. This course will teach students to: Understand the concept of Deep Learning Understand [...]

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## Exam Details

- Multiple choice, multiple answers
- Testing in person or online proctored exam
- 130 Min to take the test
- \$150 test fee
- Available in English, Japanese, Korean, and Simplified Chinese