multisoft
Systems

# AWS Certified Machine Learning – Specialty Training

*COURSE CONTENT*


GET IN TOUCH

Multisoft Systems
B - 125, Sector - 2, Noida

(+91) 9810-306-956

info@multisoftsystems.com

www.multisoftsystems.com

## About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

## About Course

The AWS Certified Machine Learning – Specialty course by Multisoft Systems provides a comprehensive pathway for professionals looking to advance their expertise in machine learning on the AWS platform. Designed for individuals with foundational knowledge in ML and AWS, this training program covers a broad spectrum of essential skills, from data engineering and model building to deployment and optimization within the AWS ecosystem.

## Module 1: Introduction

- ✓ The AWS Certified Machine Learning Specialty Exam
- ✓ Study Guide Features
- ✓ AWS Certified Machine Learning Specialty Exam Objectives

## Module 2: AWS AI ML Stack

- ✓ Amazon Rekognition
- ✓ Amazon Textract
- ✓ Amazon Transcribe
- ✓ Amazon Translate
- ✓ Amazon Polly
- ✓ Amazon Lex
- ✓ Amazon Kendra
- ✓ Amazon Personalize
- ✓ Amazon Forecast
- ✓ Amazon Comprehend
- ✓ Amazon CodeGuru
- ✓ Amazon Augmented AI
- ✓ Amazon SageMaker
- ✓ AWS Machine Learning Devices
- ✓ Summary
- ✓ Exam Essentials

## Module 3: Supporting Services from the AWS Stack

- ✓ Storage
- ✓ Amazon VPC
- ✓ AWS Lambda
- ✓ AWS Step Functions
- ✓ AWS RoboMaker

- ✓ Summary
- ✓ Exam Essentials

## Module 4: Business Understanding

- ✓ Phases of ML Workloads
- ✓ Business Problem Identification
- ✓ Summary
- ✓ Exam Essentials

## Module 5: Framing a Machine Learning Problem

- ✓ ML Problem Framing
- ✓ Recommended Practices
- ✓ Summary
- ✓ Exam Essentials

## Module 6: Data Collection

- ✓ Basic Data Concepts
- ✓ Data Repositories
- ✓ Data Migration to AWS
- ✓ Summary
- ✓ Exam Essentials

## Module 7: Data Preparation

- ✓ Data Preparation Tools
- ✓ Summary
- ✓ Exam Essentials

## Module 8: Feature Engineering

- ✓ Feature Engineering Concepts

- ✓ Feature Engineering Tools on AWS
- ✓ Summary
- ✓ Exam Essentials

## Module 9: Model Training

- ✓ Common ML Algorithms
- ✓ Local Training and Testing
- ✓ Remote Training
- ✓ Distributed Training
- ✓ Monitoring Training Jobs
- ✓ Debugging Training Jobs
- ✓ Hyperparameter Optimization
- ✓ Summary
- ✓ Exam Essentials

## Module 10: Model Evaluation

- ✓ Experiment Management
- ✓ Metrics and Visualization
- ✓ Summary
- ✓ Exam Essentials

## Module 11: Model Deployment and Inference

- ✓ Deployment for AI Services
- ✓ Deployment for Amazon SageMaker
- ✓ Advanced Deployment Topics
- ✓ Summary
- ✓ Exam Essentials

## Module 12: Application Integration

- ✓ Integration with On-Premises Systems
- ✓ Integration with Cloud Systems
- ✓ Integration with Front-End Systems
- ✓ Summary
- ✓ Exam Essentials

## Module 13: Operational Excellence Pillar for ML

- ✓ Operational Excellence on AWS
- ✓ Summary
- ✓ Exam Essentials

## Module 14: Security Pillar

- ✓ Security and AWS
- ✓ Secure SageMaker Environments
- ✓ AI Services Security
- ✓ Summary
- ✓ Exam Essentials

## Module 15: Reliability Pillar

- ✓ Reliability on AWS
- ✓ Change Management for ML
- ✓ Failure Management for ML
- ✓ Summary
- ✓ Exam Essentials

## Module 16: Performance Efficiency Pillar for ML

- ✓ Performance Efficiency for ML on AWS
- ✓ Summary

- ✓ Exam Essentials

## Module 17: Cost Optimization Pillar for ML

- ✓ Common Design Principles
- ✓ Cost Optimization for ML Workloads
- ✓ Summary
- ✓ Exam Essentials

## Module 18: Recent Updates in the AWS AI/ML Stack

- ✓ New Services and Features Related to AI Services
- ✓ New Features Related to Amazon SageMaker
- ✓ Summary
- ✓ Exam Essentials