

# Generative AI with Amazon Bedrock Training

*COURSE CONTENT*

## GET IN TOUCH



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## 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

Generative AI with Amazon Bedrock Training by Multisoft Systems is designed to help professionals understand, build, and deploy enterprise-grade generative AI applications using Amazon Bedrock and AWS cloud services. This training provides in-depth knowledge of foundation models, prompt engineering, Retrieval-Augmented Generation (RAG), chatbot development, AI-powered automation, and model integration techniques for modern business environments.

## Module 1: Introduction to Generative AI

- ✓ What is Generative AI?
- ✓ Foundation models and LLMs
- ✓ Use cases across industries
- ✓ Generative AI lifecycle

## Module 2: Introduction to Amazon Bedrock

- ✓ Overview of Amazon Bedrock
- ✓ Architecture and working
- ✓ Supported foundation models
- ✓ Model selection strategies

## Module 3: Prompt Engineering

- ✓ Prompt design techniques
- ✓ Zero-shot, few-shot prompting
- ✓ Chain-of-thought prompting
- ✓ Prompt optimization strategies

## Module 4: Working with Bedrock APIs

- ✓ API access and configuration
- ✓ Text generation and summarization
- ✓ Chatbot development
- ✓ Response tuning and parameters

## Module 5: Retrieval-Augmented Generation (RAG)

- ✓ Concept of RAG
- ✓ Data ingestion and embeddings
- ✓ Vector databases integration
- ✓ Context-aware AI responses

## Module 6: Integration with AWS Services

- ✓ Using AWS Lambda with Bedrock
- ✓ Storage using Amazon S3
- ✓ API deployment with Amazon API Gateway
- ✓ Building serverless AI applications

## Module 7: Security and Responsible AI

- ✓ Data privacy and compliance
- ✓ Model governance
- ✓ Bias and ethical AI
- ✓ Secure deployment practices

## Module 8: Performance Optimization & Cost Management

- ✓ Model performance tuning
- ✓ Latency optimization
- ✓ Cost optimization strategies
- ✓ Monitoring and logging

## Module 9: Real-World Use Cases & Projects

- ✓ AI-powered chatbot
- ✓ Document summarization system
- ✓ Content generation tools
- ✓ Enterprise RAG-based assistant