



Building Advanced Agentic Systems on AWS

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In this course, you will learn how to implement production-ready multi-agent systems using Amazon Bedrock AgentCore. It will cover multi-agent patterns, context optimization techniques, security configurations, and monitoring frameworks.

You will address the skills and knowledge required to move from a proof-of-concept to scalable, secure, and observable agentic AI implementations. The course will prepare you to design and deploy advanced agentic systems suitable for real-world production environments.

Course Contents

- Multi-agent architecture and communication patterns
- Context engineering and performance optimization
- Implementation of security and compliance
- Production monitoring, observability, and evaluation
- Well-designed agentic AI systems

Prerequisites

We recommend that participants in this course have the following prior knowledge:

- Agentic AI Foundations
- Building Agentic AI with Amazon Bedrock AgentCore

Course Target

- Analyze scenarios that require multi-agent architectures.
- Describe primary multi-agent communication patterns and their use cases.
- Configure agent-as-tool patterns for production deployments.
- Implement storage sharing using the available platform capabilities.
- Implement context management strategies for production workloads.
- Design mechanisms to compress and optimize contexts.
- Optimize resource utilization and cost management in multi-agent systems.
- Configure policy-based access control with the AgentCore Policy Engine.
- Implement VPC integration for secure agent deployments.
- Implement distributed tracing and monitoring in multi-agent systems.
- Create a comprehensive framework for agent evaluation.
- Configure integration patterns for enterprise monitoring systems.
- Set up comprehensive audit trails and compliance monitoring.
- Integrate agent-based systems with production APIs and services.
- Develop deployment strategies for production environments.
- Evaluate production readiness and establish continuous improvement processes.

This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

www.expertech-training.com/go/AWAS

Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
Classes in Germany	1 Day	€ 750
Online Training	1 Day	€ 750
Dates upon request		

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Multi-Agent Architecture and Communications

Patterns

Single agent limitations and multi-agent benefits
Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore - Task 1: Building a Personal Budget Assistant with Strands Agents
Multi-agent communication patterns
Memory and state management
Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore - Task 2: Building a Multi-Agent System for Complex Financial Analysis
Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore

Context Engineering and Performance Optimization

Context as finite resource
Context optimization techniques
Tool design for context efficiency

Security and Compliance Implementation

Production Identity and Access Management
VPC integration and network security

Production Monitoring, Observability, and

Evaluation

Monitoring architecture
AgentCore evaluation
Enterprise observability integration
Instructor Demonstration: Building and Deploying Intelligent Financial Agents with Amazon Bedrock Strands and AgentCore - Task 3: Deploying Production-Ready Agents with Amazon Bedrock AgentCore

Well-Architected Agentic AI Systems

Applying the Well-Architected framework
Well-Architected deployment
Production readiness

Course Wrap-up

Next steps and additional resources
Course summary

