

## Building Advanced Agentic Systems on AWS

**Duración: 1 Días**    **Código del Curso: GK910037**    **Método de Impartición: Curso Remoto (Virtual)**

### Temario:

Implement production-ready multi-agent systems using Amazon Bedrock AgentCore, covering multi-agent patterns, context optimization techniques, security configurations, and monitoring frameworks  
You will examine the skills needed to move beyond proof-of-concept to scalable, secure, and observable agentic AI implementations. The course prepares you to design and deploy advanced agentic systems ready for real-world production environment.

*Updated Jan 2026*

Curso Remoto (Abierto)

Nuestra solución de formación remota o virtual, combina tecnologías de alta calidad y la experiencia de nuestros formadores, contenidos, ejercicios e interacción entre compañeros que estén atendiendo la formación, para garantizar una sesión formativa superior, independiente de la ubicación de los alumnos.

### Dirigido a:

- Software developers

### Objetivos:

- In this course, you will learn to do the following:
- 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 memory sharing using available platform capabilities.
- Implement context management strategies for production workloads.
- Design context compression and optimization mechanisms.
- Optimize resource usage and cost management across multi-agent systems.
- Configure policy-based access control using AgentCore Policy Engine.
- Implement VPC integration for secure agent deployments.
- Implement distributed tracing and monitoring across multi-agent systems.
- Establish comprehensive agent evaluation frameworks.
- Configure integration patterns for enterprise observability systems
- Establish comprehensive audit trails and compliance monitoring.
- Integrate agentic systems with production APIs and services.
- Design deployment strategies for production environments.
- Assess production readiness and establish continuous improvement processes.

### Prerequisites:

**We recommend that attendees of this course have knowledge of:**

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

### Exámenes y certificación

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## Siguientes cursos recomendados:

None

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## Contenido:

### Module 1: 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

### Module 2: Context Engineering and Performance Optimization

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

### Module 3: Security and Compliance Implementation

- Production Identity and Access Management
- VPC integration and network security

### Module 4: 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

### Module 5: Well-Architected Agentic AI Systems

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

### Module 6: Course Wrap-up

- Next steps and additional resources
  - Course summary
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## Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

[info.cursos@globalknowledge.es](mailto:info.cursos@globalknowledge.es)

[www.globalknowledge.com/es-es/](http://www.globalknowledge.com/es-es/)

Global Knowledge Network Spain, C/ Retama 7, 6ª planta, 28045 Madrid