Agentic AI Foundations

Category: AI, Data & Analytics | **Vendor:** Amazon Web Services

Duration: 8.00 hours (1 days) **6.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

In this course, you'll explore the core principles and strategies for designing Agentic AI systems using AWS services. You'll learn how Agentic AI differs from traditional conversational systems, and how to use tools like Amazon Q, Kiro, Amazon Bedrock Agents, and Amazon Bedrock AgentCore to build autonomous, goal-driven solutions that solve real-world problems.

About This Course

Module 1: From LLMs to Agents

- Understanding Large Language Models (LLMs)
- Innovations powering agents
- Evolution timeline from LLMs to Agents

Module 2: Exploring Agentic AI

- Understanding Agentic AI
- Types of AI agents
- Agentic AI applications

Module 3: Understanding Agentic AI Workflows

- Workflow patterns
- Amazon Bedrock flows overview
- Demo: Amazon Bedrock Flows

Module 4: Introducing Autonomous Agents

- How Autonomous Agents work
- ReAct
- ReWoo
- Multi-agent collaboration
- AWS Agentic AI solutions

Module 5: Amazon Q and Agentic Development Tools

- Amazon Q Developer
- Amazon Q Business
- Amazon Q in AWS Services
- Kiro: AI-powered IDE with spec-driven development
- Demo: Amazon Q

Module 6: Agentic AI with Amazon Bedrock

- Amazon Bedrock Agents
- Amazon Bedrock AgentCore
- Demo: Amazon Bedrock Agents
- Hands-on lab: Explore Amazon Bedrock Agents integrated with Amazon Bedrock Knowledge Bases and Amazon Bedrock Guardrails

Module 7: Building DIY Solutions

- DIY solutions
- Observability and Monitoring
- Agent Interoperability

Module 8: Course Wrap-up

- Next steps and additional resources
- Course summary

Who Should Attend

This course is intended for:

- Software developers new to Agentic AI seeking foundational knowledge and practical implementation skills
- Technical professionals exploring AI capabilities and interested in core components and applications of agentic AI
- Development teams evaluating Agentic AI solutions and needing to differentiate between agent types
- AWS Users expanding into Agentic AI, including current users of Amazon Q Developer, Amazon Q Business, and Amazon Bedrock Agents

Prerequisites & Entry Requirements

General Prerequisites:

We recommend that attendees of this course have:

- Generative AI Essentials or equivalent work experience
- Basic AWS knowledge and software development experience

Learning Outcomes

Upon successful completion of this course, participants will be able to:

In this course, you will learn to:

- Summarize the evolution of Agentic AI and define what makes something "agentic"
- Identify core components of agentic systems: goals, memory, tools, and environment
- Distinguish between workflow, autonomous, and hybrid agents
- Compare AWS service options for Agentic AI (Specialized, Managed, and DIY approaches)
- Describe capabilities and use cases of Amazon Q Developer, Amazon Q Business, and Kiro
- Explain Amazon AgentCore and Amazon Bedrock Agents core functionalities
- Identify basic implementation patterns for Agentic AI
- Describe observability and interoperability patterns for production agentic AI systems

Detailed Course Outline

From LLMs to Agents, From LLMs to Agents, From LLMs to Agents, From LLMs to Agents, From LLMs to Agents, Exploring Agentic AI, Exploring Agentic AI, Exploring Agentic AI, Exploring Agentic AI, Exploring Agentic AI, Understanding Agentic AI Workflows, Understanding Agentic AI Workflows, Understanding Agentic AI Workflows, Understanding Agentic AI Workflows, Understanding Agentic AI Workflows, Introducing Autonomous Agents, Introducing Autonomous Agents, Introducing Autonomous Agents, Introducing Autonomous Agents, Introducing Autonomous Agents, Introducing Autonomous Agents, Amazon Q and Agentic Development Tools, Amazon Q and Agentic Development Tools, Amazon Q and Agentic Development Tools, Amazon Q and Agentic Development Tools, Amazon Q and Agentic Development Tools, Agentic AI with Amazon Bedrock, Agentic AI with Amazon Bedrock, Agentic AI with Amazon Bedrock, Agentic AI with Amazon Bedrock, Agentic AI with Amazon Bedrock, Building DIY Solutions, Building DIY Solutions, Building DIY Solutions, Building DIY Solutions, Building DIY Solutions, Course Wrap-up, Course Wrap-up, Course Wrap-up, Course Wrap-up, Course Wrap-up

Skills You Will Learn:

In this course, you will learn to:

- Summarize the evolution of Agentic AI and define what makes something "agentic"
- Identify core components of agentic systems: goals, memory, tools, and environment
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Frequently Asked Questions

Q: What delivery options are available for Agentic AI Foundations?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day Agentic AI Foundations course provides up to 6.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Agentic AI Foundations training?

The training takes place over 1 day(s), with each day lasting approximately 8.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Agentic AI Foundations?

Yes, we provide corporate training, dedicated training, and closed classes for Agentic AI Foundations. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Agentic AI Foundations, Machine Learning, AAIF, Amazon Web Services, vILT

Q: Why choose Nexus Human for Agentic AI Foundations?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Agentic AI Foundations training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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