Generative AI Essentials on AWS (GAIE)

ID GAIE **Price** CHF 700.—(excl. VAT) **Duration** 1 days

Who should attend

- Business analyst
- IT support
- Marketing professional
- Product or project manager
- Line-of-Business or IT Managers
- Sales professionals

This course is part of the following Certifications

AWS Certified AI Practitioner (CAIP)

Prerequisites

None - No prior AI or generative AI knowledge required

Course Objectives

- Explain responsible AI foundations
- Describe multimodal AI capabilities
- Implement generative AI solutions using Amazon Bedrock and Amazon Nova 2
- Explain how retrieval-augmented generation (RAG) enhances AI responses by connecting agents to organizational knowledge sources
- Describe Amazon Bedrock AgentCore capabilities
- Apply responsible AI practices using Amazon Bedrock Guardrails
- Explain security and governance considerations
- Describe key components of generative AI project planning

Course Content

Module 0: Course Introduction

- Course structure/schedule
- Five-phase learning journey
- Responsible AI foundational theme

Module 1: Responsible AI Foundations

- AI evolution: from traditional to generative
- Eight dimensions of responsible AI
- AWS commitment to responsible AI

Module 2: Introducing Generative AI

- Generative AI Foundation
- Foundation models and embeddings deep dive
- Amazon Bedrock and Amazon Nova 2 models
- Comparing models

Module 3: Multi-Modal AI and use cases

- Multimodal AI capabilities
- Industry applications and use cases
- Use case evaluation framework

Module 4: Essentials of prompt engineering

- Prompt engineering fundamentals
- Prompting strategies
- Prompt security and attach vectors

Lab 1 - Optimizing Slogan Generation with Amazon Bedrock

Module 5: Implementing responsible AI with Amazon Bedrock Guardrails

- Amazon Bedrock guardrails overview and configuration

Lab 2 - Implementing Responsible AI Principles with Amazon Bedrock Guardrails

Module 6: Introduction to Amazon Agents

- Agentic AI concepts
- Amazon Bedrock capabilities
- Amazon Bedrock AgentCore overview
- RAG and Knowledge Bases

Module 7: Introduction to Security, Governance, and Compliance

- From security principles to organizational accountability
- Governance frameworks
- Compliance requirements

Module 8: Implementing generative AI projects

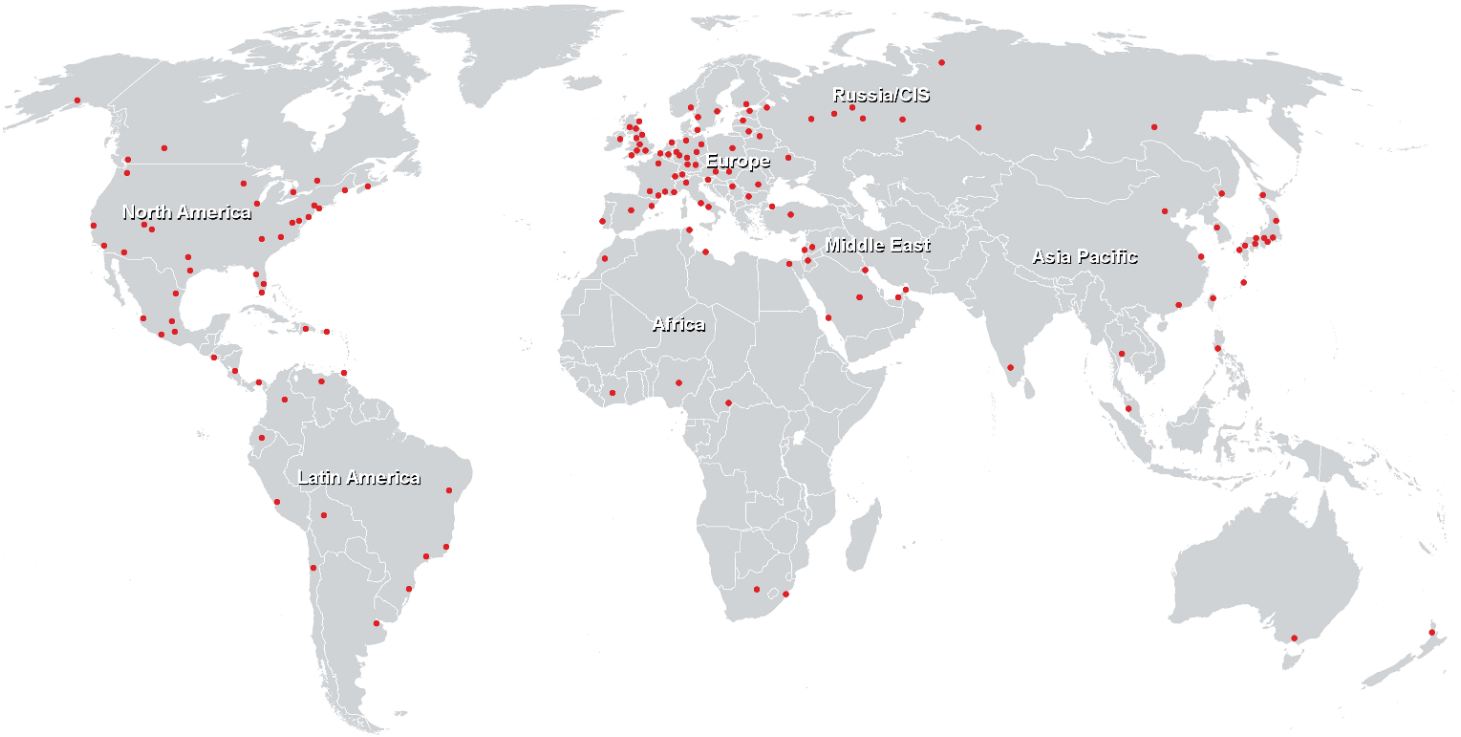
- Project planning fundamentals

Lab 3: Building an HR Assistant with Amazon Bedrock

Module 9: Summary

- Learning journey recap
- Next steps

Training Centres worldwide





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