



# Welcome to AI for Telco Part 5: Agentic AI and Agents

**ANI\_112d | On-Demand | Automation and Insights | Express**

**Course Duration:** 1 hour

This course introduces participants to Agentic AI, starting with an overview of Generative AI (GenAI) and Retrieval-Augmented Generation (RAG), defining key terms, and exploring applications. It compares AI cloud and IT cloud infrastructure before diving into Agentic AI, covering types of agents, key components, and building intelligent agents. The course includes designing agent architectures, agent communication, and agent learning and adaptation. Participants will learn to program agents using APIs and frameworks, implement basic and advanced agents, and evaluate agent performance through metrics, testing, debugging, and improvement techniques.

## Intended Audience

Those looking for basic introduction to agentic AI.

## Objectives

After completing this course, the learner will be able to:

- Define the concept and key components of Agentic AIs
- Identify different types of agents within Agentic AI
- Design intelligent agent architectures
- Implement basic and advanced agents using relevant APIs and framework
- Evaluate agent performance through metrics, testing, and debugging

## Outline

1. Overview of GenAI and RAG
  - 1.1 GenAI and LLMs
  - 1.2 Define key terms associated with GenAI
  - 1.3 Applications of GenAI
2. Introduction to Agentic AI
  - 2.1 What is Agentic AI?
  - 2.2 Types of agents
  - 2.3 Key components of Agentic AI
3. Building Intelligent Agents
  - 3.1 Designing agent architectures
  - 3.2 Agent communication
  - 3.3 Agent learning and adaptation
4. Programming Agents
  - 4.1 APIs and frameworks for agents
  - 4.2 Implementing basic agents
  - 4.3 Advanced agent programming
5. Evaluating Agent Performance
  - 5.1 Metrics for agent performance
  - 5.2 Testing and debugging agents
  - 5.3 Improving agent performance
6. Summary