Current Technologies
Computer Learning Centers

cisco Partner
Platinum Learning

# Cisco AI Technical Practitioner- Advanced (AITECHA)

***WHERE GREAT TRAINING HAPPENS EVERYDAY!***

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com



# Cisco AI Technical Practitioner- Advanced (AITECHA)

## Course Duration

2 days

## Course Price

$1,995.00
20 CLCs

## Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

## About this Class

The Cisco AI Technical Practitioner Advanced (AITECHA) training is an expert-level continuation of the Cisco AI Technical Practitioner (AITECH) Learning Path, designed for practitioners building production-grade agentic AI systems. The living domain-driven design structure ensures the curriculum evolves as the technology landscape changes. Through this training, you'll gain an understanding of the full engineering stack for production agentic AI systems. You will start by building a working agent from the ground up, learn to structure its outputs for reliable downstream integration, connect it to external tools via the Model Context Protocol (MCP), instrument and monitor it in production, give it memory and retrieval capabilities, and finally harden it against the security threats that come with autonomous tool use. Each course builds on the last—by the end you have the skills to design, deploy, and operate agents that are production-ready, not just demo-ready.

This training also earns you 21 Continuing Education (CE) credits toward recertification.

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com



# Cisco AI Technical Practitioner- Advanced (AITECHA)

## How you will benefit

This class will help you:

- Gain expertise in building production-grade agentic AI systems using industry-standard frameworks
- Develop skills to construct and integrate fully functioning AI agents with structured outputs for reliable downstream system use
- Learn to configure MCP servers and integrate external tools into AI-powered applications
- Acquire the ability to monitor, maintain, and secure AI agents in production using observability tools, KPI frameworks, and Cisco AI Defense solutions
- Earn 21 CE credits toward recertification

## Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

## Who Should Attend

The job roles best suited to the material in this course are:

- IT and Network Engineers
- Data Analysts
- AIOPs Specialists
- Solutions Architects
- Technical Leads

## Prerequisites

The knowledge and skills you are recommended to have before attending this training are:

- Completion of Cisco AI Technical Practitioner (AITECH) Learning Path
- Comfortable with Python, REST APIs, and LLM API usage

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com



# Cisco AI Technical Practitioner- Advanced (AITECHA)

## Objectives

After taking this course, you should be able to:

- Construct a functioning AI agent using industry-standard agentic frameworks and debugging practices
- Parse and route structured agent outputs to enable reliable downstream system integration
- Configure MCP servers and integrate external tools into AI-powered applications
- Implement memory, state management, and context retrieval within AI agent systems
- Design and build a production multi-agent pipeline in LangGraph using supervisor routing, specialist subgraphs, and parallel execution with structured state handoffs
- Monitor and maintain AI agents in production using observability tooling, KPI frameworks, and cost management strategies
- Evaluate agentic AI security risks and the technical configuration of Cisco AI Defense, DefenseClaw, and Splunk for threat detection and mitigation



*2026 CURRENT TECHNOLOGIES CLC*

+1 (219) 764-3800
6210 Central Ave, Portage IN
sales@ctclc.com
www.ctclc.com



# Cisco AI Technical Practitioner- Advanced (AITECHA)

## Course Outline

Module 1: Build Your First Agent

Module 2: Structured Outputs and Agent Integration

Module 3: Equip the Agent: Tools, Skills, and MCP

Module 4: Memory, State, and Context Management

Module 5: Multi-Agent Orchestration with LangGraph

Module 6: Production AI Monitoring and Evaluation

Module 7: AI Agent Security and Defense

## Lab Outline

Lab 1: Configure Organizations and Roles

Lab 2: Navigate the Cisco Intersight User Interface

Lab 3: Create Pools and Policies

Lab 4: Create Server Profile

Lab 5: Profiles from Templates

Lab 6: Cisco Intersight Dashboards

Lab 7: Automated Bare-Metal OS Installation Simulation

Lab 8: Configure Cisco Intersight Assist as a Data Proxy

Lab 9: Resolving Server Profile Association Failures Simulation



*2026 CURRENT TECHNOLOGIES CLC*