# AI+ Agent

**Category:** AI, Data & Analytics | **Vendor:** AI Certs

**Duration:** 1.00 hours (1 days) **0.8 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

## Course Information

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| **Delivery Format:** | vILT |
| **Certification:** | AI+ Agent |
| **Related Exam:** | AI-140 |

## Course Overview

AI+ Agent™ provides a practical, end-to-end understanding of how AI agents are designed, built, and deployed across modern workflows. The course breaks down the architecture behind autonomous, task-driven agents—from prompt routing and tool integration to multi-agent collaboration and real-time decision-making. Learners explore agent behavior design, workflow orchestration, retrieval augmentation, and automation patterns used across industries. Through hands-on labs, they configure, test, and optimize AI agents capable of reasoning, planning, and executing tasks independently. It’s a foundational specialization for anyone building or integrating AI agents into business or technical environments.

## About This Course

AI+ Agent™ provides a practical, end-to-end understanding of how AI agents are designed, built, and deployed across modern workflows. The course breaks down the architecture behind autonomous, task-driven agents—from prompt routing and tool integration to multi-agent collaboration and real-time decision-making. Learners explore agent behavior design, workflow orchestration, retrieval augmentation, and automation patterns used across industries. Through hands-on labs, they configure, test, and optimize AI agents capable of reasoning, planning, and executing tasks independently. It’s a foundational specialization for anyone building or integrating AI agents into business or technical environments.

## Prerequisites & Entry Requirements

**General Prerequisites:**

Basic Understanding of AI Concepts – Familiarity with core AI principles

Programming Knowledge – Proficiency in Python or similar languages

Data Analysis Skills – Ability to interpret and manipulate datasets

Problem-Solving Mindset – Analytical thinking to address AI challenges

Familiarity with Machine Learning – Understanding basic ML algorithms and techniques

## Learning Outcomes

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

Understand agent architecture, components, and operational workflows

Learn how agents reason, plan, route prompts, and interact with tools/APIs

Build autonomous agents for tasks such as research, summarization, data retrieval, and automation

Apply RAG (Retrieval-Augmented Generation) to enhance agent accuracy and context awareness

Implement multi-agent systems with role-based collaboration and task delegation

Configure guardrails, monitoring, safety layers, and ethical compliance for agent deployments

Test, optimize, and evaluate agent outputs for reliability and performance

## Detailed Course Outline

Introduction to AI Agents

Understanding AI Agents

Anatomy and Ecosystem of AI Agents

Applications, Misconceptions, and Mini Case Studies

Case Study: Transforming Customer Support at Acme Retail with AI Agents

Hands-On Exercise 1: Build a Q&A ChatBot Using Gemini + Prompt + LLM Chain in Flowise Cloud

Core Concepts & Types of AI Agents

Anatomy of an AI Agent

Classification of AI Agents

Matching Agents to Use Cases

Case Study: Enhancing Mental Health Support with AI Agents at Earkick

Hands-On Exercise

Tools for Non-Coders

No-code and visual agent platforms

Tools Overview and Setup

Start building: “Your First Flow” with n8n

Case Study: Empowering HR with AI – Building an Onboarding Assistant Without Coding

Hands-on Exercise

Building Simple Agents

Agent 1

Agent 2

Agent 3

Agent 4

Troubleshooting and Validation of AI Agents

Share Your AI Agent

Hands-On Exercise 1

Multi-Tool Agents and Workflow Automation

Multi-Tool Agents

Agent Chaining and Workflow Basics

Managing Agent State: State, Context, and User Journey

Prompt Engineering for Agents

Multi-Agent Systems (MAS)

Case Study: Smarter Marketing Campaigns with Tool Chaining

Hands-on Exercise: Automating Order Tracking and Notifications with Make.com

Integration, Application Mapping & Deployment

Deploying Agents

Channel Selection – Where the User will Interact

Hosting Environment – Where does the Agent Run?

Data Integration

Security Setup

Monitoring & Updates

Application Mapping

Hands-on Exercise 1: Integration of a Portfolio Assistant Chatbot into GitHub Pages using Zapier

Monitoring, Guardrails & Responsible AI

Observability Basics

Performance Evaluation: Key Metrics

Guardrails: Preventing Misuse & Ensuring Safe Outputs

Responsible AI

Mini-Case: Failure and Recovery in Agent Deployments

Real-world Failures

Peer Sharing: How to Present and Discuss Agent Logs/Results

Capstone Project – Design Your Own Intelligent Agent

Capstone Project 1: Smart Personal AI Assistant

Capstone Project 2: Smart Lead Engagement – From Email to Personalized Outreach – Sales Support Agent

Capstone Project 3: Education Tutor Agent

HR Knowledge Bot

Customer Service Agent

Healthcare Triage Bot

## □□ Certification Path

AI+ Agent

Exam: AI-140

# Frequently Asked Questions

### Q: What delivery options are available for AI+ Agent?

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

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### Q: What certification does this course prepare me for?

The AI+ Agent course helps prepare you for the AI+ Agent certification path.

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### Q: Which exam does this course prepare me for?

This course prepares you for the AI-140 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

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### Q: How many CPD hours does this course provide?

The 1-day AI+ Agent course provides up to 0.8 CPD hours of structured learning. CPD certificates can be provided upon request.

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### Q: What is the duration of the AI+ Agent training?

The training takes place over 1 day(s), with each day lasting approximately 1.00 hours including breaks for lunch and refreshments.

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### Q: Do you provide corporate training for AI+ Agent?

Yes, we provide corporate training, dedicated training, and closed classes for AI+ Agent. 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.

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### Q: What related terms do people search for?

Popular related searches include: AI+ Agent, AI Certs, vILT

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### Q: Why choose Nexus Human for AI+ Agent?

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

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### Q: Are there any discount codes available?

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


## Nexus Human

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