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

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

Q: What certification does this course prepare me for?

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

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.

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.

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.

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.

Q: What related terms do people search for?

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

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

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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