



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**CODE:**      **LENGTH:**      **PRICE:**

AIC\_AT-310    40 Hours    £370.00

## Description

Get hands-on with the tools and technologies that power the AI ecosystem.

- Core AI Foundations: Covers Python, deep learning, data processing, and algorithm design
- Hands-on Projects: Focus on NLP, computer vision, and reinforcement learning
- Advanced Modules: Includes time series, model explainability, and cloud deployment
- Industry-Ready Skills: Prepares learners to design and deploy complex AI systems

## At a Glance: Course + Exam Overview

**Included:** Self-paced course + Official exam + Digital badge

**Delivery:** Online labs, projects, case studies

**Outcome:** Industry-recognized credential + hands-on experience

## The following tools will be explored in this course:

- TensorFlow
- SHAP (SHapley Additive exPlanations)
- Amazon S3
- AWS SageMaker

## What's Included (One-Year Subscription + All Updates):

- High-Quality Videos, E-book (PDF & Audio), and Podcasts
- AI Mentor for Personalized Guidance
- Quizzes, Assessments, and Course Resources
- Online Proctored Exam with One Free Retake
- Comprehensive Exam Study Guide
- Access for Tablet & Phone

## Objectives

- AI Cloud Infrastructure Management
- Cloud Automation with AI
- Predictive Cloud Analytics
- Cloud Security with AI
- AI-Powered Data Management in Cloud

## Audience

- Cloud Professionals: Enhance your cloud management skills by integrating AI to optimize cloud performance, improve resource utilization.
- Cloud Architects & Engineers: Learn to leverage AI to design scalable cloud infrastructures, automate cloud provisioning, and enhance security.
- IT Infrastructure Managers: Use AI to optimize cloud deployment, automate system management, and improve cloud security

and disaster recovery planning.

- **Business Leaders:** Drive innovation in your organization by adopting AI in cloud technologies to enhance scalability, reduce costs, and optimize cloud solutions.
- **Students & Fresh Graduates:** Gain a competitive edge in the cloud computing field by mastering AI tools and techniques that are revolutionizing cloud infrastructure.

## Prerequisites

- A foundational understanding of key concepts in both artificial intelligence and cloud computing.
- Fundamental understanding of computer science concepts like programming, data structures, and algorithms.
- Familiarity with cloud computing platforms like AWS, Azure, or GCP.
- Basic knowledge of mathematics as it is important for machine learning, which is a core component of AI+ Cloud™ program.

## Programme

### Course Overview

Course Introduction

### Module 1: Fundamentals of Artificial Intelligence (AI) and Cloud

- 1.1 Introduction to AI and Its Application
- 1.2 Overview of Cloud Computing and Its Benefits
- 1.3 Benefits and Challenges of AI-Cloud Integration

### Module 2: Introduction to Artificial Intelligence

- 2.1 Basic Concepts and Principles of AI
- 2.2 Machine Learning and Its Applications
- 2.3 Overview of Common AI Algorithms
- 2.4 Introduction to Python Programming for AI

### Module 3: Fundamentals of Cloud Computing

- 3.1 Cloud Service Models
- 3.2 Cloud Deployment Models
- 3.3 Key Cloud Providers and Offerings (AWS, Azure, Google Cloud)

### Module 4: AI Services in the Cloud

- 4.1 Integration of AI Services in Cloud Platform
- 4.2 Working with Pre-built Machine Learning Models
- 4.3 Introduction to Cloud-based AI tools

### Module 5: AI Model Development in the Cloud

- 5.1 Building and Training Machine Learning Models
- 5.2 Model Optimization and Evaluation
- 5.3 Collaborative AI Development in a Cloud Environment

### Module 6: Cloud Infrastructure for AI

- 6.1 Setting Up and Configuring Cloud Resources
- 6.2 Scalability and Performance Considerations
- 6.3 Data Storage and Management in the Cloud

### Module 7: Deployment and Integration

- 7.1 Strategies for Deploying AI Models in the Cloud
- 7.2 Integration of AI Solutions with Existing Cloud-Based Applications
- 7.3 API Usage and Considerations

### Module 8: Future Trends in AI+ Cloud Integration

- 8.1 Introduction to Future Trends

## 8.2 AI Trends Impacting Cloud Integration

### Module 9: Capstone Project

#### 9.1 Applying AI and Cloud Concepts to Solve a Real-world Problem

#### Optional Module: AI Agents for Cloud Computing

1. Understanding AI Agents
2. Case Studies
3. Hands-On Practice with AI Agents

### Follow on courses

#### Recommended Certifications:

- AI+ Architect™

### Test and Certification

#### Exam Details

- Duration: 90 minutes
- Passing Score: 70% (35/50)
- Format: 50 multiple-choice/multiple-response questions
- Delivery Method: Online via AI proctored exam platform (flexible scheduling)

#### Exam Blueprint:

- Fundamentals of Artificial Intelligence (AI) and Cloud - 5%
- Introduction to Artificial Intelligence - 7%
- Fundamentals of Cloud Computing - 8%
- AI Services in the Cloud - 10%
- AI Model Development in the Cloud- 15%
- Cloud Infrastructure for AI - 15%
- Deployment and Integration - 15%
- Future Trends in AI + Cloud Integration - 20%
- Capstone - 5%

### Session Dates

Date	Location	Time Zone	Language	Type	Guaranteed	PRICE
01 Jan 0001			English	Self Paced Training		£370.00

### Additional Information

This training is also available as onsite training. Please contact us to find out more.