

AI CERTS™

AI Certification Program

AI + Cloud™



Executive Summary

The AI+ Cloud™ certification program targets developers and IT professionals aspiring to excel in cloud computing integrated with artificial intelligence. The curriculum offers an in-depth exploration of AI and cloud computing, encompassing advanced cloud infrastructure and AI model deployment. Participants gain practical insights into cloud-based AI applications, culminating in an interactive capstone project. With these skills, graduates are primed to navigate the dynamic AI+ Cloud™ integration landscape, equipped to design and implement AI solutions seamlessly within cloud environments for sustained success.

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 important for

- machine learning, which is a core component of AI+ Cloud program.

Exam Blueprint

Number
of Questions

50

Passing
Score

35/50 or 70%

Duration

90 Minutes

Format

**Online via AI
Proctoring platform**

Question Type

**Multiple Choice/Multiple
Response**

Module Wise Weightage

| Module | Weight |
|--|--------|
| 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 Project | 5% |
| | 100% |

 AI CERTs™
The logo features a stylized 'A' icon followed by the text 'AI CERTs' and a trademark symbol. AI⁺
Cloud™
The logo consists of the text 'AI+' in a large font above the text 'Cloud' with a trademark symbol. A stylized profile of a human head with a glowing blue digital brain and circuitry, set against a dark blue background with abstract geometric patterns.

Certification Modules

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

Hands on Examples

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

Certification Outcome

Upon successful completion of the AI+ Cloud certification, participants will adeptly merge cloud computing and artificial intelligence. They'll gain hands-on experience in developing, deploying, and managing machine learning tasks across leading cloud platforms. Mastery includes optimizing AI model performance, enforcing security protocols, and meeting compliance standards. This course aims to furnish you with skills essential for coveted certification, elevating your career profile. Demonstrating proficiency at the intersection of cloud computing and AI, this certification underscores your ability to deliver practical solutions, affirming expertise in seamlessly integrating these innovative technologies.



Market Insight

As businesses increasingly rely on cloud infrastructure and AI technologies, professionals with expertise in both domains are in high demand. The AI+ Cloud certification equips individuals with the sought-after skills to capitalize on this trend, offering a competitive edge in the job market and opening doors to lucrative career opportunities.



Value Proposition

Gain proficiency in merging cloud computing and artificial intelligence. Master creating, deploying, and managing machine learning tasks on leading cloud platforms. Optimize AI model performance, enforce security, and ensure compliance. This certification enhances your career profile, showcasing expertise in seamlessly integrating these cutting-edge technologies for practical solutions.



Additional Features

Interactive Sessions: Engage in discussions with industry experts and peers. **Hands-on Exercises:** Practical tasks to apply learned concepts in real-world scenarios. **Case Studies:** Dive deep into real business challenges and AI-driven solutions. **Post-Certification Support:** Access to a community of AI experts and enthusiasts for continuous learning and networking.

AI Experts



Jason Kellington

AI Expert

As a consultant, trainer, and technical writer with more than 25 years of experience in IT, I specialize in the development and delivery of solutions focused on effective and efficient enterprise IT.



Justin Frébault

AI Expert

I'm a boutique data consultant specializing in data mesh and lakehouse solutions. I've dedicated my career to helping organizations transform their approach to data, moving beyond mere knowledge.



J Tom Kinser

AI Expert

I have over forty years of experience in software development, data engineering, management, and technical training. I am a Microsoft Certified Trainer and a software developer, holding multiple certifications.



Terumi Laskowsky

AI Expert

Country Manager for Global Consulting Services in Japan, Specialties: Information Security (Compliance, Policy, Application, Host, Network)

AI CERTS™

AI & BITCOIN CERTIFICATIONS!

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