

Arcitura Certified Microservices Architect Course

Course Duration : 80 Hours

Course code : ARC-MSA-934

1. Course Overview

The Arcitura Certified Microservices Architect Course is designed to provide in-depth knowledge of microservices architecture and its implementation using industry-recognized standards from Arcitura Education. This course focuses on designing scalable, flexible, and resilient systems using microservices-based architecture.

2. What you'll learn?

- Fundamentals of microservices architecture
- Service design and decomposition strategies
- API design and management
- Inter-service communication patterns
- Data management in distributed systems
- Security and performance optimization

3. Target Audience

- Software architects and solution architects
- Backend and full-stack developers
- DevOps professionals
- IT professionals working on distributed systems
- Cloud and infrastructure engineers

4. Pre-Requisites

- Basic understanding of software architecture
- Knowledge of APIs and web services
- Familiarity with cloud and distributed systems (recommended)
- Experience in programming (optional but helpful)

5. Course Content (Modules)

Module 1: Microservices Architecture Fundamentals

- Introduction to microservices
- Monolithic vs microservices
- Architectural principles

Module 2: Service Design & API Management

- Service decomposition
- API design best practices
- API gateways

Module 3: Communication & Data Management

- Synchronous and asynchronous communication
- Messaging systems
- Database per service

Module 4: Security & Performance Optimization

- Security in microservices
- Performance tuning
- Fault tolerance strategies

Module 5: Case Studies & Certification Preparation

- Real-world architecture examples
- Best practices