

Service API Specialist Course

Course Duration : 40 Hours

Course code : API-SPC-939

1. Course Overview

The Service API Specialist Course is designed to provide in-depth knowledge of designing, developing, and managing APIs for modern applications. This course focuses on building scalable, secure, and high-performance APIs that enable seamless communication between different systems and services.

2. What you'll learn?

- Advanced API design and development
- RESTful services and API standards
- API lifecycle management
- Authentication and authorization techniques
- API performance optimization
- Testing and monitoring APIs

3. Target Audience

- Backend developers and software engineers
- API developers and integration specialists
- DevOps professionals
- Cloud and system architects
- IT professionals working with APIs

4. Pre-Requisites

- Basic knowledge of APIs and web services
- Understanding of programming (JavaScript recommended)
- Familiarity with HTTP protocols
- Experience in web development (preferred)

5. Course Content (Modules)

Module 1: API Fundamentals & Architecture

- API concepts and types
- REST architecture principles
- API design best practices

Module 2: Advanced API Development

- Building APIs with Node.js
- Routing and middleware
- Handling complex requests

Module 3: API Security & Versioning

- Authentication methods (JWT, OAuth basics)
- API versioning strategies
- Security best practices

Module 4: API Management & Performance

- API lifecycle management
- Monitoring and analytics
- Performance optimization

Module 5: Testing & Deployment

- API testing tools (Postman)
- Deployment strategies
- Real-world case studies

