

# Apigee X Training

## *COURSE CONTENT*

### GET IN TOUCH



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## **About Multisoft**

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## **About Course**

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Apigee X Training enables professionals to develop, deploy, and manage secure APIs using Google's cloud-native API management platform. The course covers API proxy development, policy configuration, authentication, traffic management, analytics, automation, developer engagement, and governance. Through practical implementation and enterprise-focused scenarios, participants gain the skills required to build reliable, secure, and scalable API management solutions.

## Module 1: API Management Fundamentals and Apigee X Overview

- ✓ Introduction to APIs and API Management
- ✓ API Lifecycle Management
- ✓ Apigee X Architecture
- ✓ Core Components of Apigee X
- ✓ Google Cloud Integration
- ✓ Enterprise API Management Use Cases

## Module 2: Apigee X Environment Configuration

- ✓ Apigee Organizations and Environments
- ✓ Environment Groups
- ✓ Hostnames and Virtual Hosts
- ✓ Initial Platform Configuration
- ✓ Networking Considerations
- ✓ Deploying APIs to Environments

## Module 3: API Proxy Development

- ✓ Creating API Proxies
- ✓ Proxy Endpoints and Target Endpoints
- ✓ Flow Configuration
- ✓ Request and Response Processing
- ✓ Deploying and Testing API Proxies
- ✓ API Versioning Strategies

## Module 4: Policy Management and Traffic Control

- ✓ Understanding Apigee Policies
- ✓ Traffic Management Policies
- ✓ Quota and Spike Arrest
- ✓ Message Transformation
- ✓ Flow Control and Conditional Execution
- ✓ Fault Handling and Error Management

## Module 5: API Security and Access Management

- ✓ API Key Authentication
- ✓ OAuth 2.0 Implementation
- ✓ JWT Verification
- ✓ Threat Protection Policies
- ✓ Secure API Access
- ✓ Security Best Practices

## Module 6: API Products and Developer Experience

- ✓ Creating API Products
- ✓ Managing Developers and Developer Apps
- ✓ API Consumption Models
- ✓ Developer Portal Overview
- ✓ Publishing APIs
- ✓ API Lifecycle Management

## Module 7: Analytics, Monitoring, and Debugging

- ✓ API Analytics Dashboard
- ✓ Performance Monitoring
- ✓ Trace Tool
- ✓ Debugging API Proxies
- ✓ Log Analysis
- ✓ Operational Monitoring

## Module 8: CI/CD Automation and Version Management

- ✓ Deployment Automation
- ✓ CI/CD Pipeline Integration
- ✓ Maven-Based Deployment
- ✓ Git Integration
- ✓ API Revision Management
- ✓ Automated Testing Concepts

## Module 9: Advanced Apigee X Features

- ✓ Shared Flows
- ✓ Flow Hooks
- ✓ Key Value Maps (KVM)
- ✓ Cache Management
- ✓ Service Callouts
- ✓ JavaScript and Extension Policies

## Module 10: Enterprise Integration and API Governance

- ✓ Backend Service Integration
- ✓ Microservices Connectivity
- ✓ API Governance Framework
- ✓ API Lifecycle Governance
- ✓ Performance Optimization
- ✓ Enterprise API Design Best Practices

## Module 11: Production Deployment and Enterprise Projects

- ✓ Production Deployment Strategies
- ✓ High Availability Considerations
- ✓ Multi-Environment Management
- ✓ Operational Best Practices
- ✓ End-to-End API Management Project
- ✓ Enterprise Case Studies