

# API TESTING COURSE SYLLABUS

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## Hi Folks,

Oranium Tech introducing some amazing content on API Testing. Discover better career opportunities on API Testing Systems to create modern smart technologies for day-to-day life. Oranium Tech provides deep insights with the comprehensive API Testing Systems course syllabus as per industry standards and we focus more on hands-on practicals. We provide course completion certification placement guidance to the right candidates in our API Testing Training Institute in Chennai.

## Introduction to REST API

- What is WebServices?
- Why WebServices so Popular?
- Overview of SOAP WebServices and REST WebServices
- What is REST API?
- How is different from SOAP WebServices?
- Base URL and REST Resources
- Understanding of GET, POST, PUT, DELETE

## Getting Started with REST API Testing

- Understanding REST API Testing Part
- Manual Testing on REST API using POSTMAN
- How to Trigger New Request and Validate Response using REST API
- Limitation of Manual Testing

## REST API Automation

- Overview Automation on REST Applications
- Benefit of Automation Testing for Applications
- Setting up Project Tools for Automation Testing
- Understanding How to setup for Automation Testing
- Mock Sample Testing
- How to validate Responses

### **Depth Automating REST API**

- Automating POST request with Payload
- Applying Advanced validation on Responses
- Passing Previous values into subsequent Request
- Business case for Error Responses

### **REST API Framework development**

- TestNG
- What is TestNG?
- Advantages of TestNG over Junit
- TestNG Setup
- Different types of Annotations, Assert
- Data Driven Test using Data Provider
- Converting Project to TestNG framework
- Generating reports and creating BAT file

### **Maven**

- Importance of Maven in Framework
- Installing and configuring Maven
- Understanding of Maven
- Creating Maven Project and importing into eclipse
- Understanding POM.xml file and its dependencies
- Importance of surefirePlugin in executing Tests
- Integration of Testng with Maven

### **Jenkins- Continuous Integration Tool**

- Importance of Jenkins
- Install and configure Jenkins
- Configuring Jenkin Settings and Workspace

### **Logs using log4j library**

- What is log4j?
- Importing log4j into Eclipse project
- Importance of log4j xml file
- Understanding the xml file to control logging in Testcase
- Test case logging with log4j examples

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