

API testing

Module 1: Introduction to API Testing

- What is API Testing and its importance
- Types of API (REST, SOAP, Graph QL)
- Tools and Framework for API testing

Module 2: Understanding API

- How APIs Work
- HTTP/HTTPS methods (Get, POST, PUT, DELETE)

Module 3: Introduction to Postman

- What is Postman?
- Installation and Setup
- Postman Interface

Module 4: Organizing Requests with Collections

- What are Collections?
- Creating Collections
- Organizing Collections
- Variables in Postman
- Environments

Module 5: Creating and Sending Requests

- Creating Request in Postman
- Setting Request headers, parameters and authentication
- Sending and receiving responses

Module 6: Advanced Request Configuration

- Request Body
- Request Authentication
- Request Pre-Scripts and Post-Scripts

Module 7: Testing and Validation

- Writing Tests
- Test Automation

Module 8: SoapUI Basics

- Introduction to SoapUI
- Creating a New Project
- Working with API Requests

Module 9: Test Assertions

- Understanding Test Assertions
- Response Validation

Module 19: Test Suites and Test Cases

- Organizing Tests
- Test Flow Control

Module 11: Advanced SoapUI Features

- Scripting in SoapUI
- Load Testing

Module 12: Performance Testing of APIs

- Introduction to API performance Testing
- Tools for performance testing (JMeter)
- Creating and Executing performance tests
- Analyzing performance test results