

Postman Certified Expert

Introduction to API

- APIs Introduction
- What is API Testing?
- Validation technique used in API Testing
- Understanding of URI, Resources, End Points, Http verbs
- Best Practices of API Testing
- Advantages of API
- Introduction to REST API
- Introduction to SOAP API
- Understanding GET, POST, PUT, PATCH verbs

Introduction to Postman

- Introduction to Postman tool
- Installing Postman tool
- Installing postman tool as Chrome Add-on
- Postman Settings
- Postman Landscapes

API Testing with Postman

- Creating API requests using Postman
- Setting up project using REST API

- Validation of responses with Postman client
- Validation of the JSON response
- Validation of Response Time
- Validation of Status Codes
- Examples of Validating status codes and response headers
- Creating and managing workspaces
- Importing requests from browser
- Testing Cookies
- Saving Postman responses
- Creation of Collections in Postman
- How to create Environments
- Setting Up URLs using environments
- Creating quick scripts
- Pre-request scripts
- Test Assertions
- Generating code snippets
- Debugging and troubleshooting in Postman
- Functional Testing of Web Services

API Automation Framework

- Automation with Newman tool
- Introduction to NodeJS

- Introduction to NPM
- Monitoring in Postman
- Installation of NodeJS and Newman
- Running Collection
- Running Collection with Newman
- Creation of HTML report

Authentication and Authorization in Postman

Advanced Concepts in Postman

- Data-driven testing using CSV and JSON
- Automation of POST request using Payload
- Saving the response body in String for further validations
- Load testing of API using Postman
- Analyzing Load test responses
- Converting raw data to XML or JSON
- Creating log to debug automation scripts
- Creating a reusable API framework
- Sending requests through scripts
- Connecting Database using Postman

Hands-on Practice:GitHub API

- Building and Testing API workflow using GitHub
- Introducing GitHub API

- Creation of workflow using GitHub API
- Introduction to Two-factor Authentication
- Setting two-factor authentication on GitHub
- Setting two-factor authentication in Postman

Advanced Assertions

- Basics of Assertions
- Introduction to Chai JS Assertion library
- How to make assertions in nested JavaScript arrays
- How to make assertions in nested JavaScript objects

Workflows and Scenarios

- Introduction to Workflow and Scenarios
- Creation of basic Workflow or Scenario
- Introduction to Advanced Workflow
- Using Multiple Workflow with same Collection

Assignments

- Hands-on assignment on Postman tool
- Writing test cases for a real time API requirement
- Executing Test cases in Web API through Postman