

Certified SDET Advanced

Automation Frameworks

- **What is Automation Framework?**
- **Why do we need Automation Framework?**
- **Types of Automation Frameworks**
- **Linear Scripting Framework**
- **Modular Testing Framework**
- **Data Driven Testing Framework**
- **Keyword Driven Testing Framework**
- **Hybrid Testing Framework**
- **Behaviour Driven Development Framework**
- **How to design Automation Framework**
- **Architecture of Automation Framework**

Rest API Automation Testing

- **Introduction to API Testing**
- **Why is API testing important?**
- **What are Web Services?**
- **Understanding the REST API architecture**
- **Understanding the GET, POST, PUT and DELETE requests**
- **Validating the REST API responses**

Overview of Devops

- **Overview of DevOps**
- **Relationship between Agile and DevOps**
- **CI/CD Pipeline**

- **DevOps Toolchain**
- **Overview of DevOps tools**

Introduction to Github

- **Overview of GIT**
- **GIT Installation**
- **Create GIT Account**
- **GIT Lifecycle**
- **GIT Integration with Eclipse**
- **GIT Create**
- **GIT Clone**
- **GIT Commit**
- **GIT Push**
- **GIT Update**
- **GIT Delete**
- **GIT Stash**

Introduction to Jenkins

- **What is Jenkins?**
- **How to install Jenkins?**
- **Create your first job in Jenkins**
- **Create Pipeline using Jenkins**
- **How to integrate Smoke, System and Regression test in CI/CD pipeline?**
- **Integrating your project with Jenkins.**

Web Development

- **Basics of HTML**
- **Tags**

- **Elements**
- **Attributes**
- **Forms**
- **Form Elements**
- **Introduction to CSS & JavaScript**

JSP

- **JSP Overview**
- **Advantages of JSP**
- **JSP Lifecycle**
- **Scripting elements**
- **JSP Implicit Objects**
- **JSP Page Directive Attributes**
- **JSP Directives**
- **JSP Actions**

Servlet

- **Servlet Overview**
- **Servlets Architecture**
- **Servlets Life Cycle**
- **doGet and doPost Methods**

Web Servers

- **Introduction to Web Servers**
- **How to deploy application in Server**
- **Debugging**
- **Logging**

Basic Design Pattern

- **Introduction to Design Patterns**

- **Model View and Controller – MVC**
- **Singleton Design Pattern**

Spring Framework

- **Introduction to Java Frameworks**
- **Most Popular Java Frameworks**
- **What is Spring Framework?**
- **Why use Spring?**
- **Advantages of Spring Framework**
- **How Spring works?**
- **Dependency Injection**
- **Aspect Oriented Programming – AOP**
- **Spring Architecture**
- **Spring Modules**

JDBC

- **Introduction to Spring JDBC**
- **JDBC Template**
- **Data Access/ Integration Modules**
- **How to make connections**

Spring Boot

- **What is Spring Boot?**
- **Why Spring Boot**
- **Advantages of Spring Boot**

Database

- **Introduction to MySQL**
- **Installation**
- **Create Database**

- **Drop Database**
- **Select Database**
- **Create Table**
- **Insert Query**
- **Select Query**
- **Delete Query**
- **Joins and more queries**