

Lets Make Automation Easy

SDET/Test Architect /Test Automation

About Trainer

Total years of experience—
13+ years

Total years of working experience in workshop you will give—
10+ Years

Number of hours session taken by you on workshop—
2000+ Hours

Number of candidates attended—
1500+

Given workshops at organization level—
Yes

Given workshops as freelancer—
Yes (India, USA, UK, Australia, Singapore)

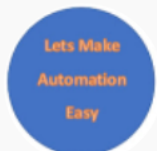
Your interest to give workshop—
Love to teach, always having approach to make workshop with fun.

Any certification done in same—
Sun Certified

How different you are in giving workshop—
I always believe person attending my workshop is from 12th Standard background and I try to explain from very basics.

Others

Youtuber for Manual and Automation Testing related topics (Channel Link below)



Lets Make Automation Easy - Pradeep Nailwal

<https://www.youtube.com/channel/UCS49X69DjtvSpoQcqstjbBQ>

Course Content

Introduction of Automation Testing

- What is Automation Testing
- Advantages and Disadvantages of Automation Testing

Master in the Core Java concepts

Basic Java

- JDK installation (Java Compiler and JRE (some supporting java file and JVM))
- Java is Object Oriented
- Java is Platform Independent (Why platform independent?)
- Class
- Object Class (Its super class for all classes)
- Methods
- Object (Object creation/instantiation)
- Constructor (Type of constructor and constructor chaining)
- Data Types (Primitive (int, char, Boolean etc.) Not primitive (class, array))
- Variable Types (Local variables, Instance variables, Class/Static variables)
- Access Modifiers (public, private, protected, default, final, static, abstract etc.)
- Loop Control (for, while, for each, do while)
- Decision Making (if else, nested if else, switch case, continue and break)
- Strings
- Arrays

Object Oriented Concepts

- Inheritance
- Polymorphism (Overloading, Overriding)
- Abstraction
- Interfaces
- Encapsulation

Java Collections

- List
- Set
- Map

Exceptions

- Checked Exception (IOException, SQLException)
- Unchecked Exception (ArithmeticException, NullPointerException)
- Error (OutOfMemoryError)
- How to handle exceptions

Master in Selenium Web Driver (Web Application Automation)

Selenium Concepts

- How to Launch Browser with desired URL
- Web Element Locators
- How to inspect Web Element
- Verify Page title in Selenium Web driver
- Navigation in selenium
- Radio button and Checkbox in Selenium Web driver
- Handling Dropdown List
- Handling Mouse Hover, Keyword Events using Action class
- Implicit Wait and Explicit Wait (WebDriver Wait)
- How to take screenshot using selenium
- Handling Multiple windows (Window Handling)
- Handling Alert Messages.
- Handling Iframes.
- Cross Browsing using selenium
- Complete details of Dynamic XPath in Selenium
- Handle Date Picker (Web Tables)
- How to use Logs File in selenium
- How to use Properties File in selenium
- Print all Link available on a page
- How to run Java Script on Browser using selenium

TestNG Concepts

- Advantage of using TestNG framework
- TestNG Annotations
- Hierarchy of TestNG Annotations
- Testing.xml file structure

Maven Concepts

- Advantage of using Maven
- What is pom.xml
- How to link TestNG framework with Maven Hierarchy

Automation Frameworks

- What is framework
- Page Object Model
- Data Driven Framework
- Report Generation

Master in SoapUI (Web API Automation using SoapUI tool)

Web services Basics

- What is web service?
- Web Service Example
- Different types of Services: Soap & Rest Web Element Locators

SOAP UI Details

- How SOAUI helps in testing of Web Services
- How to configure services in SOAP UI
- How to use SOAPUI for Web services Automation

Setup Environment

- Setup SOAPUI Free version
- Setup SOAPUI Pro version
- Free SOAP Web services
- Difference between SOAP and Rest Services
- Advantages of Rest Services over SOAP Services

Properties at different SOAPUI level

- Global properties
- Project level property
- Test Suite level property
- Test Case level property

Setup Environment

- Setup SOAPUI Free version
- Setup SOAPUI Pro version

Different Steps in SOAPUI

- Delay test Step
- Groovy Script test Step
- Property test Step
- Manual Test Step
- Run Test Case Step
- Assertion test Step

Parameterization/Data driven test cases

- Data Source loop using excel file
- Data Sink Step
- Data source Loop using Data sink Assertions
- Contains Assertion
- Not Contains Assertion
- Response SLA Assertion
- Schema Assertion
- Valid Http Code Assertion
- Invalid Http Code Assertion
- XPath Assertion
- XQuery Assertion

Database Connectivity in SOAPUI

- JDBC Setup

Soap Web Service Automation (Framework Creation)

- Soap Service Automation
- Rest Service Automation

Master in Rest Assured (Web API Automation using Java)

Client Server Basics

- Client Server Architecture and HTTP Protocol
- HTTP Request
- HTTP Response

RESTful Basics

- What is REST?
- Rest Architectural Elements

REST API Testing – Basics

- Configure Eclipse with Rest-Assured
- REST API Test using Rest Assured
- Validate Response Status using Rest Assured
- Validate Response Header using Rest Assured
- Read JSON Response Body using Rest Assured

REST API Testing – Advance

- GET Request using Rest Assured
- POST Request using Rest Assured
- PUT Request using Rest Assured
- DELETE Request using Rest Assured

RESTAPI Testing Framework

- Complete framework creation using **Maven and Jenkins**

Master in JMeter (Web API Performance Test Automation)

What is API and Performance testing

- What is Performance Testing
- Why Performance Testing
- Techniques of Performance Testing

All About API

- What & types of API's
- API Examples
- Why API Testing is important
- HTTP Methods
- HTTP Error Codes

About JMeter

- What is JMeter
- Why JMeter
- Java Installation
- Installation of JMeter

- Overview of JMeter

Components of JMeter

- Test Plan
- Thread Group
- Sampler
- Controllers
- Listeners
- HTTP Header Manager
- Pre-Processor
- Post Processor
- Parametrization

Rest API Handling HTTP Methods

- Get API
- Post API
- PUT API
- Delete API

Using CSV Data Config

- Using CSV Data config
- CSVDataFile

Using CSS Data Config

- Creating HTML Reports

Master in CI/CD

Integration of Git Hub in Automation

Project Integration of Jenkins in Automation Project