GLOBAL
TECHSYS LEARNING
An ISO 9001:2015 Certified

Center For Higher Technical Educations

Global Techsys
excellence within

AUTOMATION TESTING
SELENIUM

ABOUT US

Global Techsys Learning is a leading Skills and Talent Development Corporate Training Institute that is building a manpower pool for global industry requirements. Global Techsys Learning has three main lines of business – Corporate Training, Skills and Careers, and Placement Solutions.

Global Techsys Learning has been founded by a group of highly qualified professionals with an excelled expertise in varied technological domains as a center for IT education & training with a vision to make candidates ready for the IT industry from day one. We believe in in-depth perfection in whatever we do and we strive to bring it alive through Global Techsys . Global Techsys proved that every candidate from fresher to experience got trained on latest IT requirements and became the first choice for industries.

That's Why Now We are **(Global Techsys Learning)** Punes One Of The Trusted Corporate Training Institute In Many More Domains … We Provide the best Corporate Training with 100 % Practical work & live projects its help many of our candidates to get a job in Leading MNC & Corporate Company in this industry with good position & salary structure ….

One More Reasons To **Global Techsys Learning** Sucess Our Experience Placement Consultation Team ….

AUTOMATION TESTING - SELENIUM COURSE CURRICULUM

1) JAVA FOR WEB DRIVER

- ▣ Introducing the JAVA Technology
- ▣ Packages
- ▣ Object-Oriented Programming Concepts
    - >> Abstraction
    - >> Inheritance
    - >> Polymorphism
    - >> Encapsulation
- ▣ String & Array
- ▣ Exceptions and Assertions
- ▣ I/O Streams
- ▣ Wrapper Classes
- ▣ Collections of Java
- ▣ Reading data from Property files using the java program
- ▣ Reading and Writing data from/to Excel files using Apache POI API and JXL API

2) INTRODUCTION TO SELENIUM

- What is automation testing?
- What is the use of automation testing?
- What do we need to Automate?
- Automation execution analysis.
- What is Selenium?
- Advantages of Selenium
- What is the difference between Selenium and QTP?

3) DIFFERENT FLAVOURS IN SELENIUM

- IDE
- Selenium Web Driver/Selenium 2.0
- Selenium-Grid

4) LOCATORS AND OBJECT IDENTIFICATIONS

- Tools to identify elements/objects
- Firebug
- IE Developer tools
- Google Chrome Developer tools
- Locating elements by ID
- Finding elements by name
- Finding elements by link text
- Finding elements by XPath
- Finding Elements by using CSS
- Summary
- Some Special IDE commands
- Write your own Selenium IDE script without record and playback

5) SELENIUM WEBDRIVER

- Why WebDriver?
- Downloading web driver Jars configuring in eclipse
- Architecture of selenium webdriver
- Drivers for Firefox, IE, Chrome, iPhone, Android, etc
- What is the difference between Selenium RC and WD?

6) SAMPLE PROGRAMME IN WEB DRIVER

- Handel Text box
- Handel Hyperlink
- Handel Button and Check box
- Handel Radio Button and Dropdown Controls
- Select value from Dropdown
- Display all values
- Select values step by step
- Capture screenshots for failure Testcases
- Re-Running failure Testcases
- Synchronization Commands In Web Driver
- Why Implicit wait and Implementation of Implicit wait
- Why Explicit wait and Implementation of Explicit wait
- Web Driver Fluent wait and Thread Sleep functionality
- File uploads and File downloads (Handling Window-based controls using Robot and Sikuli API)
- Handling alerts box and Verifying the Alert Texts
- Handling confirmation messages
- Keyboard actions
- Mouse actions
- Handling frames working with Nested frames
- Handling multiple tabs
- Handling popups
- Preparing web driver test cases using customized x-path
- Identifying controls using x-path predefined functions
- Web Tables
- Web Driver with TEST NG Frame Work
- Batch Running Test cases using TestNG
- Validations and their usage in Automation test scripts
- Customized Report Generation
- Implementing Logs using Apache Log

7) TESTING FRAMEWORK

- Overview of Testing
- Environment of Testing
- Writing WebDriver Test Cases using Testing
- Basic Annotations of Testing
- Executing Tests
- Executing Test Suites
- Ignore Test
- Dependency Test
- Parameterized Tests
- Testing XML
- Report Generation

8) WORKING WITH MULTIPLE BROWSERS

- Executing Automation Test Cases in multiple browsers Sequentially
- Working with Chrome and IE browsers
- What is Firefox Profile And Implementation of Firefox Profile
- What is WebDriver Desired Capabilities class
- Executing Automation Test Cases in multiple browsers Parallel

9) MAVEN PROJECT MANAGEMENT TOOL

- Introduction about maven
- High-Level Overview
- Ant vs Maven
- Installation of Maven
- Demo using Sample Maven Project
- Maven Structure
- Maven Dependencies
- Maven Repositories
- Maven Eclipse Integration

10) Version Controlling Tool GITHUB

- ▣ Downloading and configuring GitHub
- ▣ Difference between CVC Versus DVC
- ▣ Basic Git Commands
- ▣ Working with Repositories
- ▣ Setting up Repositories
- ▣ Local and Remote Repositories
- ▣ Create repository and cloning projects
- ▣ Committing and Syncing the code
- ▣ Reverting and Rolling Back the Code
- ▣ Branch and Merging Concepts and Implementation
- ▣ Stashing Changes
- ▣ Resolving the Conflicts

11) DATABASE TESTING USING WEB DRIVER

- ▣ Installing MySQL Database
- ▣ Java.sql package
- ▣ Overview of Connection Interface, Statement Interface, Prepared Statement, and Result set Interfaces.
- ▣ Example program to Access Database.
- ▣ Some examples on SELECT, UPDATE and DELETE queries.
- ▣ Some Webdriver examples using Data fetched from Database

12) AUTOMATION TEST FRAMEWORKS
How To Develop A Test Automation Framework In A Live Environment

- ▣ What is a framework
- ▣ Types of frameworks
- ▣ Data-driven framework
- ▣ Modular driven framework
- ▣ Keyword-driven framework
- ▣ User Defined Keyword driven framework with implementation
- ▣ Execute test scripts from the framework

12) AUTOMATION TEST FRAMEWORKS

Continuous Integration Testing Using Jenkins

- ◪ About Jenkins
- ◪ History of Jenkins

Cucumber BDD Framework

- ◪ Introduction to Cucumber
- ◪ Cucumber Installation
- ◪ Cucumber Basics
- ◪ Gherkin – Business-Driven Development
- ◪ First Cucumber Selenium Java Script
- ◪ Feature File
- ◪ Junit Runner Class
- ◪ Gherkin Keywords
- ◪ Step Definition
- ◪ Passing Parameters to Step Definition Class
- ◪ Running Cucumber through Maven
- ◪ Cucumber Options
- ◪ Finally Write Test Cases using cucumber
- ◪ Integrating cucumber to Test Automation Framework
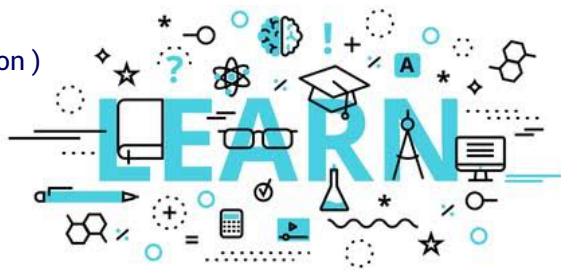
13) THE FUNDAMENTAL OF RESTFUL SERVICES IN JAVA

- ◪ What is Jersey?
- ◪ RESTFul Architecture
- ◪ Using HTTP GET Demo
- ◪ Test Created New REST Service USING HTTP GET
- ◪ JSON Output for HTTP GET
- ◪ Using HTTP POST Demo
- ◪ Test Service USING HTTP POST
- ◪ JSON Output for HTTP POST
- ◪ Using HTTP PUT Demo
- ◪ Test Service USING HTTP PUT
- ◪ PUT vs POST
- ◪ JSON Output for HTTP PUT
- ◪ Using HTTP DELETE Demo
- ◪ Test Service USING HTTP DELETE
- ◪ JSON Output for HTTP DELETE

KEY FEATURES

- ✓ Higher Package IT Jobs
- ✓ 1 on 1 Career Support
- ✓ Interview Preparation
- ✓ Dedicated mentoring session from industry experts
- ✓ Trainer Is From Top MNC'S
- ✓ Profile Building
- ✓ Flexible Batches
- ✓ Job Opening
- ✓ Intership

WE PROVIDE FOLLOWING COURSES :-

- ▣ ERP
- ▣ Data Science Training Programme
- ▣ Cyber Security
- ▣ Sales Force
- ▣ RPA (Robotic process automation)
- ▣ AWS Training
- ▣ Python Development
- ▣ Machine Learning (ML)
- ▣ Ethical Hacking
- ▣ Statistical Analysis Software (SAS)
- ▣ Cloud Security
- ▣ AI & Deep Analysis
- ▣ Automation Testing - Selenium

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Sunday : Closed

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