Selenium
Software testing

CREDO SYSTEMZ
Selenium Course Curriculum

Our Selenium Training course ensures effective training with our updated Selenium course content which covers all the necessary advanced testing concepts, techniques from scratch and the skill set needed for uplifting to a testing professional with Selenium, automation testing tools with Selenium IDE, Selenium WebDriver, Selenium RC and Selenium Grid prepared by our testing expert trainers for successful career growth.

Who We Are

Credo Systemz boasted as the Best IT Training institute in Chennai, aim in educating the workforce to the IT industry. Along with a team of highly experienced and qualified trainers, we offer state of the art training with excellent infrastructure to keep you above par for the emerging IT skill trends.

With individual attention to our Customers, unique mentorship from trainers with hands-on project training, career & placement guidance, we have 15000+ happy customers who have distinguished us from our competitors, with their satisfied reviews.

Why Choose US

Be it an individual or a corporate collaboration, our dedicated team will serve and assist you for your needs to enhance the effectiveness of training with utmost commitment to your professional development. Also, with comprehensive course duration & Flexible schedule & training pattern, allowing candidates to choose between week day \ week end sessions, or online learning sessions or for our corporate friends to conduct the training in their office premises, we are committed to deliver as per the need of our customer.

Upgrading my professional skill with Selenium at Credo Systemz is truly an enriching experience. Also, I would be glad to recommend this to my friends who are looking for a breakthrough in their careers. My faculty helped me in understanding the basics and criticalities of the tool and its importance of it in the industry No doubt, Credo Systemz was my right choice.

- Kowsi
Automation Test Engineer

Real Time Projects

Live project based on most of the selected use cases, involving the various methodologies of Automation Testing.

Lifetime Support & Access

Lifetime access to our LMS and Technical Forum for 24x7 online support team who will resolve all your technical queries.

Hands-on Assignments

All the sessions will have challenging practical assignments which makes you stronger in Selenium and Clear Interviews.

Assured Placement

Our dedicated Placement Team always touch with our client companies and find the right jobs for you until you get your Dream Job.

Expert Faculty

Our Selenium curriculum has been specifically designed and delivered by our expert faculty who has great industry exposure.

Certification

Successful completion of the final project will get you certified as a Selenium Certified Professional by Credo Systemz.

01 Introduction To Automation Testing

Topics

- What is automation testing?
- When Automation Testing is needed?
- What is the use of automation testing?
- Different Automation Tools available in the Market.
- What is the difference between Selenium and QTP?

02 Basics Of Java – Introdution Of Java

Topics

- Java Installation
- Introduction to all predefined packages
- More about JVM,JRE&JDK
- Types of Variables
- Data Types in Java

Hands-on Practicals:

- Implementing Calculator Functionality

03 OBJECT ORIENTED PROGRAMMING CONCEPTS

Topics

- Introduction to OOPS
- Class
- Object
- Local, Instance and static variables
- Constructors
- Methods
- Arrays
- This keyword
- Final Keyword
- Inheritance and Types
- Working with super classes and subclasses
- Super Keyword
- Using types of polymorphism such as overloading, overriding, and dynamic binding
- Abstraction
- Encapsulation
- Abstract classes
- Interfaces
- String Methods
- Collections
- Exception Handling

Hands-on Practicals:

- Java Logical Programs from Interview Point of View.
- Interview Questions Discussion.

04 I/O STREAMS

Topics

- I/O using Java
- Files (Create/Read/Write operations on files)

Hands-on Practicals:

- Reading Values from the File and Perform Java Logical Programs.

05 Introduction To Selenium

Topics

- What is Selenium?
- Advantages of Selenium
- Architecture of Selenium WebDriver

06 Components In Selenium

Topics

- IDE Overview
- Selenium-Grid
- Selenium 4.0
- RC Overview
- Selenium Web Driver/

07 Selenium Ide

Topics

- Installing IDE
- IDE icons
- Recording your first test with IDE
- IDE Context Menu
- Assert
- Verify
- Adding IDE comments
- Write your own IDE script without record and playback

Hands-on Practicals:

- Writing the Record and PlayBack Script with Validation in the Form Submission Application

08 Selenium Web Driver

Topics

- Selenium Internal Architecture
- Downloading web driver Jars configuring in eclipse
- Drivers for Firefox, IE, Chrome, Opera, Safariand HTML Unit Driver.
- What is the difference between RC and WD?
- Installing and Configuring Eclipse for Web Driver

09 Locators In Selenium

Topics

- ID
- Name
- Class Name
- Link Text
- Partial Link Text
- X-Path

Hands-on Practicals:

- Interview Questions Discussion.

10 Exploring Web Driver

Topics

- Edit box
- Link
- Button
- Checkbox
- Radio Button
- Drop Down Box
- Select value
- Display all values
- Select values step by step

- Capture screenshots
- Synchronization Commands In Web Drive
- Implicit wait
- Explicit wait
- eb Driver wait
- File uploads and File downloads
- Handling alerts

- Handling confirmation messages
- Keyboard actions
- Mouse actions
- Handling I frames
- Handling multiple tabs
- Handling popups
- Preparing web driver test cases using customized x-path
- HandlingWebTables

Hands-on Practicals:

- Performing End to End Scenarios in Ecommerce Application.

- Performing End to End Scenarios in User Registration Application.

- Handling WebTables in the Live Score Card.
- Performing Functionality Test in the Banking Application.

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11 Data Driven Framework

Topics

- Interacting with Database
- Interacting with Property File

- Interacting with XML
- Interacting with Excel

Hands-on Practicals:

- Interacting with Database
- Retrieving Values from the Property file and perform End to End Scenarios in Live Projects
- Reading and Writing Values from the Excel File and perform End to End Scenarios in Live Projects.

12 TestNG Framework

Topics

- How to Install TestNG plug-in in Eclipse?
- TestNG Annotations
- TestNG sample script
- Selenium testing script from scratch

- Creating Test suites using TestNG
- Reports generation using TestNG
- Parameterized test cases using TestNG framework

- Preparing TestNG Parallel Suite
- Running test multiple times, depends on Methods,Grouping
- TestNG Listener Sample Program

Hands-on Practicals:

- Implementing the Live Project Using TestNG

13 BDD – CUCUMBER

Topics

- How to Set up Cucumber in Eclipse
- About Feature,Step Definition and Runner Class

- How to integrate Testng with Cucumber
- Gherkin Keywords
- Cucumber Options

- Parameterization in Cucumber
- Data Driven Testing using Examples Keyword and Data Table.

14 PAGE OBJECT MODEL DESIGN PATTERN

Topics

- Why Page Object Model & When it will be effective

- POM Design Rules
- POM Implementation of Rules

- Implementation of testcases using POM framework

Hands-on Practicals:

- Developing the TestNG Framework using POM Design Pattern in the Live Project.

15 Reporting

Topics

- Installing Extent Report Plugin in Eclipse
- Methods in Extent Report
- Extent Report Implementation

Hands-on Practicals:

- Generating the Live Report which Include Failure Screenshots

16 Code Repository

Topics

- Git Commands (Init,Git Commit,Git Pull,Git Push ..)
- Git Hub Implementations

17 Build Tools

Topics

- Maven Features
- Maven Build Process and Dependencies
- Maven Automation Project Build
- Best Practices

18 *CI Tools*

Topics

- Install Jenkins
- Setup Maven Project in Jenkins
- Schedule the build
- Best Practices

19 *Real Time Project Implementation*

Topics

- Commerce Project
- Travel Booking
- Sample Banking Application

Real Time Projects For - Case Studies

1 — Implementing Continues Integration(CI) using Jenkins tool and Trigger the Project Frame Work

Creating the Maven Job in Jenkins and Trigger the POM.xml based on every check-in that happens in Source Code Management and sending the test result to email distro after live e-commerce application validation.,

2 — Implementing the Hybrid Framework using Page Object Model and Page Factory Design Pattern with the help of TestNG.
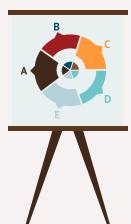
Creating the Maven Project and add all the project dependencies. Step by Step implementation of Hybrid Framework for Live Banking Application using Page Object Model and Page Factory Design Pattern.

3 — Implementing the Hybrid Framework using Page Object Model esign Pattern with the help of BDD (Cucumber).

Creating the Maven Project and add all the project dependencies. Step by Step implementation of Hybrid Framework for Live E-Commerce Application using Page Object Design Pattern with the help of BDD.

All the way from skilling to placement end-to-end Career Support

SESSIONS WITH INDUSTRY MENTORS

Attend sessions from top industry experts and get guidance on how to boost your career growth

MOCK INTERVIEWS

Mock interviews to make you prepare for cracking interviews by top employers

RESUME PREPARATION

Get assistance in creating a world-class resume from our career services team

GUARANTEED INTERVIEWS & JOB SUPPORT

Get interviewed by our 400+ hiring partners

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