Training Program

Software Testing Using Selenium Training

1.2 Million Learners

1-1 Personlized Mentorship

60% Average Salary Hike

About **Program**

Learning Format
Online / Offline

Trainer
Industry Professionals

Career Services
By Croma Campus

Our course content has been specifically designed to turn you into a skilled professional in this industry. As a part of your certification training, you will receive enough study material and recorded video sessions that will help you cover all the latest trends and features in this course. The training session will comprise important sections, features, advantages, and scope of the technology in the coming years. Moreover, our qualified trainers will help you imbibe all the required skills, and information in a much better manner to help you in you becoming an expert in this technology. Post the completion of your course, you will receive a training certificate recognized world-wide.

What Make Us **Tick**

Career-oriented Sessions
Attend 25+ career-oriented sessions by industry mentors and prepare
your career trajectory

Profile Building
Craft a resume and LinkedIn profile and make an impression on top employers

Mock Interview Preparation
Prepare with mock interviews including most asked questions by top employers

1:1 Mentoring Sessions
Get 1:1 guidance at every step in your career transition to respective Technology

Dedicated Job Portal Access
Get exclusive access to 100s of job postings per month on Croma Campus Intellipaat's job portal

Guaranteed interviews
Get job interviews with 400+ hiring partners including promising startups and top MNCs

Software Testing Using Selenium **Training Curriculum**

- ✅ **Manual Testing**

- ✅ **Software Testing Fundamentals**
  - Introduction
    - What is Software Testing?
    - Why do we need Testing?
    - How to perform the Testing?
    - Benefits of Testing

  - Software Testing Terminologies
    - Mistakes, Faults, Bugs & Failures
    - Priority & Severity
    - Debugging & Root Cause Analysis
    - Verification & Validation
    - Test Bed/Environment
    - Mock-ups
    - Test Scenario

  - Quality Assurance & Quality Control
    - What is Quality Assurance?
    - What is Quality Control?
    - Quality Assurance vs Quality Control

  - Software Testing as a Career
    - Best testing practices used in Software Industry
    - Software Tester Roles
    - Job Responsibilities of a Software Tester
    - Why choose Software Testing as a career?
    - How training can help you to become a Software Tester?

- ✅ **SDLC & STLC**

- ✅ **Software Development Life Cycle (SDLC)**
  - Software Requirement and Analysis
    - Requirement Gathering
    - SRS Creation
    - Feasibility Study
    - Requirement Validation
    - SRS Approval

- Project Kick-off
- Application Walkthrough
- Requirement Analysis
- Software Requirement Design
  - System Design
  - Architecture Design
  - Module Design
- Coding/Development
- Testing
- Implementation/Live
- Software Testing Life Cycle (STLC)
  - Requirements Analysis
  - Test Planning
  - Test Development
  - Test Execution
  - Test Reporting
  - Test Result Analysis / Defect Analysis
  - Re-Testing
  - Regression Testing
  - Test Closure Report

✅ Software Testing Models
- Waterfall Model
- Iterative Model
- Prototyping Model
- Progressive Model
- Spiral Model
- V-Model
- RAD (Rapid Application Development)
- Agile

✅ Agile Methodology

- **Introduction to Agile – Principles & Methodology Overview:**
  This module introduces the Agile Methodology and the differences between traditional and agile development. Key Agile principles are explored along with a step-by-step process on how to develop project teams, including the three roles of Scrum. Sprint planning and Release.

- **User Stories & Agile Testing:**

  In this module you will be introduced to User Stories and Agile Testing as they relate to the Agile Methodology. Topics of discussion will include writing and prioritizing effective User Stories along with identifying different agile testing methods.

- **Agile Project Management:**

  This module discusses Agile Project Management, including how to update product backlog, identify reasons for change, manage risk, communicate change in requirements and apply best practices for iterative management.

✅ Software Testing Types / Methodology

- White Box Testing
  - Path Testing
  - Loop Testing
  - Condition Testing
  - White box Testing from Memory Point of View
  - White box Testing from Performance Point of View
- Grey Box Testing
- Black Box Testing
  - Boundary Value Analysis.
  - Equivalence partitioning.
  - State Transition Testing.
  - Decision Table Testing.
  - Graph-Based Testing.
  - Error Guessing Technique
- Functionality Testing
- Non-Functional Testing
- Component Testing
- Integration Testing
- System Testing
  - Build
  - Release
  - Patch
  - Test Cycle
  - Continues Integration
  - Incident Management

- • Software Architecture and Testing
  - • Web Application
  - • Client Server Application
  - • Stand Alone Application
- • Acceptance Testing
  - • Alpha Testing
  - • Beta Testing
- • Smoke Testing/Sanity Testing/Dry Run
- • Adhoc Testing
- • Exploratory Testing
- • Compatibility Testing
- • Performance Testing
  - • Load Testing
  - • Stress Testing
  - • Volume Testing
  - • Soak Testing
- • Reliability Testing
- • Usability Testing
- • Accessibility Testing
- • Globalization Testing
  - • Internationalization Testing
  - • Localization Testing
- • Regression Testing

✅ Test Case Designing & Development

- • Introduction to Test Case
- • Test Case Design Techniques
  - • Specification Based
  - • Experienced Based
- • Test Case Format
- • Functional Test Case
- • Integration Test Case
- • System Test Case
- • Procedure to Write and Execute Test Case
- • Test Case Review Process

✅ Test Planning Process

- • Test Cases

- Review Process
  - Peer Review
  - Walkthrough
  - Inspection
- Bug/Defect Management
  - Bug/Defect Lifecycle
  - Bug Tracking through Tool (Jira/Bugzilla)
- Test Plan
  - Introduction
  - Test Objective
  - Test Environment
- Scope of Testing
  - Modules to be Tested
  - Modules not to be Tested
  - Types of Testing
  - Levels of Testing
- Testing Schedule
  - Entry Criteria
  - Testing Flow
  - Test Deliverables
  - Defect Tracking
  - Task Management
  - Suspension/Resumption Criteria
  - Risk & Mitigation Plan
  - Completion/Exit Criteria
- Test Design Checklist
- Test Execution Checklist

✅ Test & Defect Management Tools & Process
- Introduction to Defects
- Defect Life Cycle
- Status of Defects
- Severity of a Defect
- Priority of a Defect
- Defect Report/Incident Report
- Defect Tracking Tool:
  - JIRA
  - Mantis

- ✅ Static Testing

- ✅ Dynamic Testing

- ✅ Quality Assurance and Quality Control

- ✅ Projects
  - Web Application Project
  - Mobile Application Project
  - Compatibility Testing Project

- ✅ ISTQB Certification (International Software Testing Qualification Board)

- ✅ Fundamentals of Testing
  - What is Testing?
  - Why is Testing Necessary?
  - Seven Testing Principles
  - Test Process
  - The Psychology of Testing

- ✅ Testing Throughout the Software Development Lifecycle
  - Software Development Lifecycle Models
  - Test Levels
  - Test Types
  - Maintenance Testing

- ✅ Static Testing
  - Static Testing Basics
  - Review Process

- ✅ Test Techniques
  - Categories of Test Techniques
  - Black-box Test Techniques
  - White-box Test Techniques
  - Experience-based Test Techniques

- ✅ Test Management
  - Test Organization
  - Test Planning and Estimation
  - Test Monitoring and Control

- Configuration Management
- Risks and Testing
- Defect Management

✅ Tool Support for Testing
- Test Tool Considerations
- Effective Use of Tools

✅ Mobile Application Testing

✅ Mobile Testing Introduction
- Overview of Mobility Testing
- Mobile Application Development Process
- Introduction to various Mobile platforms
- Introduction to Various Apps, Mobile App, Web based App, Native App, Hybrid App.

✅ Mobile Testing Strategy
- Device Emulator
- Mobile Cloud Computing (Remote Real Devices)
- Real Time Devices
- Automation Tools
- Emulators and its usage
- Installation and un- installation of Android Emulator

✅ Mobile Testing Approach
- Mobility Application – Test Approach/Phases
- Test Requirements
- Test Planning
- Test Environment Setup
- Test Design
- Test Execution and Defect tracking
- Test Reports and Acceptance

✅ Mobile Testing Scope
- Unit Testing
- Integration Testing
- Functional Testing
- Device Conformance Testing
- Regression Testing

- Mobile Browser Compatibility Testing
- Performance Testing
- System Testing

✅ Database Testing

✅ Introduction
- What is Database?
- What is Database Management System (DBMS)?
- What is Relational Model?
- Introduction to RDBMS

✅ Datatypes and Constraints
- What are Datatypes?
- Types and Examples.
- How to use.
- What are Constraints?
- Types and Examples.
- How to use

✅ Statements in SQL
- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

✅ Software installation
- Installing and set up of Software
- Working on Oracle 10g.

✅ Data Query Language (DQL)
- Select
- From
- Where
- Group By
- Having
- Order By

✅ Operators
- Types and Examples

✅ Functions in SQL
- Single Row Functions
- Multi Row Functions
- Max ()
- Min ()
- Sum ()
- Avg ()
- Count ()

✅ Sub Query
- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
- Single Row Sub Query
- Multi Row Sub Query
- Nested Sub Query.

✅ Pseudo Columns
- Introduction on Pseudo Columns
- ROWID
- ROWNUM
- Working and Usage.

✅ JOINS
- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

✅ Co- Related Sub Query
- Working and Examples

✅ Data Definition Language (DDL)
- Create
- Rename
- Alter

- Truncate
- Drop

✅ Data Manipulation Language (DML)

- Insert
- Update
- Delete

✅ Transaction Control Language (TCL)

- Commit
- Save point
- Rollback

✅ Data Control Language (DCL)

- Grant
- Revoke

✅ Normalization

- Introduction to Normalization
- Types of Normal Forms
- Examples.

✅ E R Diagrams

- Introduction to ERD
- Examples.

✅ Core Java

✅ Introduction to Programming

- Introduction to Java
- JDK Installation
- Keywords, Identifiers, Variables
- Operators
- Method/Functions
- Flow Control Statements
- Arrays
- Strings
- Interactive programs in java using Scanner

✅ Introduction to Programming

- Classes and Objects
- Object creation

- Reference variable
- Global and local variables
- Constructors
- Aggregation
- Composition
- Inheritance
- Method Overloading
- Method Overriding
- Abstract classes
- Interfaces
- Typecasting
- JVM architecture
- Polymorphism
- Abstraction
- Java Packages
- Access Specifies

✅ Java Built-in Packages and API

- Overview of Java API
- Object class
- String, String Buffer and String Builder
- Exception Handling
- Threads and multithreading
- Wrapper Classes
- Data Structures
- Java Collection Frameworks
- File Handling
- Serialization
- Garbage Collector
- Encapsulation

✅ Automation Testing Using Selenium 4.0

✅ Automation Testing

- What is Automation Testing?
- When we Switch to Automation Testing?
- Why Automation testing? /Advantages
- Disadvantages
- Automation Testing Tools

✅ Seleniumv4.0

- What is Selenium
- Why Selenium? / Advantages
- What are its versions?
- What all OS, Browsers, and Programming Languages it Support?

✅ Selenium Web Driver

Selenium WebDriver is a collection of open-source APIs which are used to automate the testing of a web application.

- Java-Selenium Architecture
- WebDriver Architecture
- Basic Selenium Program to Open and close Browser
- Runtime Polymorphism Program in Selenium
- WebDriver abstract methods
- Locators
- Xpath, its Types and cases
  - Handling Multiple Elements
  - Handling Synchronisation issue by using implicitly Wait and Explicitly Wait
  - Handling Dropdown (static and dynamic)
  - Handling Keyboard and Mouse Actions
  - Taking Screenshot
  - Handling Disabled Element
  - Performing Scroll down Action
  - Web Element Interface Methods
  - Handling Popups (web-based and Window-based)
  - Handling Frames
  - Handling New Windows/New Tabs

✅ Automation Framework (Data Driven, Keyword Driven & Method Driven)

✅ Automation Testing

- Stages and Types of Frameworks
- Explanation of Hybrid Framework with a Combination of
  - Data-Driven
  - Keyword-Driven
  - Method-Driven
    - POM (Page Object Model)

TestNG

- Fetching TestNG Report
- Batch Execution
- TestNG Flags and Annotations
- Assertion
- Grouping Execution
- Data Parameterisation
- Data driven through Data Provider
- Parallel Execution
- Distributed Parallel Execution
- Cross Browser Parallel Execution

Modular Frameworks

Modular framework is like creation of small, independent scripts that represents modules, sections, and functions of the application under test. Testers use Modular testing framework to divide an application into multiple modules and create test scripts individually

Hybrid Framework

Hybrid Driven Framework is a mix of both the Data-Driven and Keyword Driven frameworks. In this case, the keywords as well as the test data, are external ized. Keywords are stored in a separate Java class file and test data can be maintained in a properties file or an Excel file

- Hybrid Framework Architecture
- Introduction to Maven, GitHub and Jenkins
- Test Data files
- TestCore class which loads Xls file, run selenium server through code and do other initialization
- Object.Properties file to store Xpaths
- Configuration Files
- Skipping Test Cases
- Screenshot Capturing
- Emailing Test Results
- Generating Reports
- Generating Application and Selenium Logs
- Running Framework Automation through Maven

e-Learning through **LMS**

Learning **Management System**

Our LMS (LearnPitch) is for the administration, documentation, tracking, reporting, automation, and delivery of educational courses, training programs, or learning and development programs.

Our LMS has been designed to identify training and learning gaps, using analytical data and reporting to keep you up with the class activities.

Key Features **Learning Management System**

Live Sessions with Class recordings

Track your class wise attendance

Get study material with Assignments.

Share your feedback for Trainer & Training

Track your curriculum covered.

Get your Training Certificate from LMS

Training **Certification**

Earn Your **Certificate**

Your certificate and skills are vital to the extent of jump-starting your career and giving you a chance to compete in a global space.

Croma Campus! **Reviews**

"The most rewarding part of my experience has been achieving a prestigious certification in the subject that I love. Moreover, the training offered out by the specialists are of world-class and prepares out the students for corporate world. For me Croma Campus means a lot."

"**By The Students For The Students**"

Your Success Is **Our Story**

Bharat
"I am fully satisfied with the excellent training services received by the expert staff at Croma Campus. I want to thank Croma Campus for providing me with the most innovative and affordable training services for learning all the software testing procedures and guidelines."
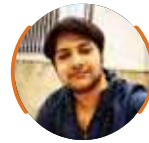
Ankit
"It was a lifetime experience for me to get trained by IT Experts of Croma Campus. What I liked most about the training was the consistent high-quality education, which was friendly and co-active. The placement department was also proactive, they keep me updated regarding new job opportunities and provide the grooming session to crack the interview. At last, I would like to thank all faculty members of Croma Campus for their immense help and support."

Nitesh
"Without any second thought, I will give Croma Campus 10/10. Their placement department is highly proactive. I remember they started scheduling interviews for me from the very next day when I told them my course has been completed. These people are doing a phenomenal job and I highly recommend Croma Campus to everyone."

Shams Khan
"Croma Campus is doing a phenomenal job in the IT training industry. The reason why I decided to join their training program was that they provide quality training at very a nominal price. Plus, the online training mode was also a factor due to which I decided to join the training program of Croma Campus as I didn't want to attend physical classes."

G 4.2/5 1030+ Google Reviews

4.8/5 1224+ Sulekha Reviews

4.6/5 1034+ Urbanpro Reviews

Jd 4.3/5 1294+ Just Dial Reviews

f 4.5/5 1390+ Facebook Reviews

Meet Our Team

Sales Team

Our Sales team is highly passionate, emphatic, positive attitude, great listening skills, ability to deliver quick solutions, and they are multitasker too. Our team always remains up-to-date about all the latest technologies and market trends. With effective communication skills, they always work to deliver the right information to customers when it is needed.

Product Team

Our product team is highly functional and collaborative working together to achieve the common outcome of designing exceptional digital experiences. Each of our members is a contributor to help us achieve success in long-run. Sitting at the high-end of technology and innovation, team helps to deliver high-end customer experiences and always comes out with a big idea as a game-changing plan.

Marketing Team

Our Marketing team works as gladiators and helps us to achieve business success in all possible ways. They are included in almost everything either it is building a brand, creating brand awareness, promoting products or services, delivering trailblazing customer experiences or increasing engagement at public forums. They are the true backbone of the Company.

Content Team

Our content team is responsible for ideation, creation, optimization, and distribution of content throughout the company. The team always starts its work with a strategy, how to create high-quality contents, and how to promote or share the content. Our in-house content team help us to produce all types of contents either they are educational content pieces, marketing content, SEO content, or any other forms too.

Customer Access Team

This is the team that has actually been taken up us from reactive state to a pro-active state. The team utilizes high-valued solutions to satisfy customers in all possible ways. It is truly said that no company can succeed if your customers are not satisfied. And our customer success team is dedicatedly working to keep all the customers satisfied and we always consider our customer feedback on priority.

HR Team

Our HR team is committed to provide high-end solutions to employees as they require. Our HR team has the right skills and knowledge to make sure that the HR department can always be legally and strategically successful. They know how to keep employees motivated all the time with the best HR policies and fun activities too from time to time.
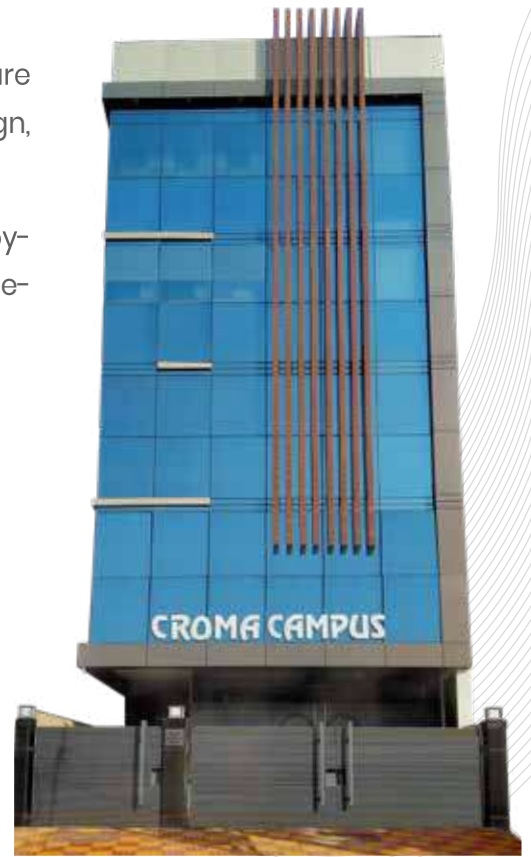
Glimpse Of **Our Office**

Look **Who We are**

Our office's infrastructure comprises all the necessary software and network resources that are required to deliver IT & Design, Human Resources, Digital Marketing, and training services.

We are well-equipped with bright designed work bays for employees and managers having separate cabins with spacious cafeteria and training classrooms.

About Croma Campus

" Our Mission is to Build Nation through Education & Beyond Limitation. "

Croma Campus Training & Development Private Limited is an education platform providing rigorous industry-relevant programs designed and delivered in collaboration with world-class faculty, industry & Infrastructure. In the past 12 years we have trained 18000+ candidates and out of which we are able to place 12000+ professionals in various industries successfully.

We Are Affiliated With Different Partners

ISO

MSME

NSDC National Skill Development Corporation
Transforming the skill landscape

GST

startupindia

Ministry Of Corporate Affairs Government of India

PMKVY

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