



“Career Edge”

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GlobalEdx

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**GlobalEdx Learning and Technology Solutions Private Limited**

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## Why GlobalEdx.com

GlobalEdx.com is a Training & Consulting company. We are specialized in face to face Classroom training and Online Live Instructor-led Training for Human Capital Development, in both Personal and Technical skills.

Our courses are designed keeping in view of individuals, working professionals and corporates located globally and looking for qualified skillful trainers.

## Career Program for Testers:

This training program has been designed to provide complete understanding and implementation of Manual Testing & Selenium, importance of Automation tools and other key concepts mainly used in real world applications. We will help you writing Test cases, Test scenarios.

 **45 Working Days**

**Prerequisites:** Basic Programming knowledge on any language like C, C++

**Required Criteria:** BE/B Tech/MCA with aggregate of 60%

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## INTRODUCTION TO SOFTWARE TESTING

- Introduction to software Testing
- Testing Principals
- Objectives of Testing
- Cost of fixing defects
- Software Development Process
- Project vs. Product
- Error / Bug / Defect
- Why Software has defects
- Most common defects
- Verification vs Validation
- Difference between QA & QC
- Role of a Tester

## SOFTWARE DEVELOPMENT LIFE CYCLE (SDLC)

- SDLC Phases

## SOFTWARE DEVELOPMENT LIFE CYCLE MODELS

- Waterfall Model
- Prototype Model
- V Model
- Spiral Mode
- Agile Model
- How to Identify a suitable model for a project

## SOFTWARE TESTING METHODOLOGIES

- White Box Testing
- Black Box Testing
- Gray Box Testing

## STATIC TESTING TECHNIQUES

- Reviews
- Types of Reviews
- Inspections & Audits
- Walkthroughs

## WHITE BOX TESTING

- Unit Testing
- Mutation Testing
- Integration Testing
- Big-bang approach
- Top-down approach
- Bottom-up approach
- Stubs & Drivers

## DEFECT / BUG LIFE CYCLE & DEFECT MANAGEMENT

- When New Issue is assigned to Development
- If the Issue and Steps are clear to reproduce the issue
- If the Issue and Steps are NOT clear
- When Issue is fixed by Developer and ready for Alpha Release
- When it's Time for Alpha Release
- In case of Existing Issue – Assigned To Development
- If the Issue is Not a Bug
- Build Format
- Testers/Developers
- Production
- Difference between Severity/Priority

## BLACK BOX TESTING

- System Testing

## USER ACCEPTANCE TESTING (UAT)

- Alpha Testing
- Beta Testing

## SOFTWARE TESTING TEST PLAN

- Test Plan & Test Strategy
- Reference Documents
- Code Freeze Date
- Change Control
- Release Criteria
- Test Items
- New Product Features to Be Tested
- Features Excluded from testing
- Roles and responsibilities
- Test Matrix
- Risks and contingencies
- Test Schedule/Estimates
- Hardware/Software
- Test Deliverables
- Test Scenarios
- Designing

## BLACK BOX TEST DESIGN TECHNIQUES

- ECP
- BVA
- Error Guessing
- Real Time Template for Test case Design
- Guide Lines for writing Test Cases
- Difference between strategy and methodology

## REQUIREMENT TRACEABILITY MATRIX

- RTM

## TEST EXECUTION & TYPES OF TESTING

- Smoke Testing
- Sanity Testing
- Integration Testing
- Ad-hoc Testing
- Re-Testing
- Regression Testing
- Recovery Testing
- Risk Based Testing
- End-to-End Testing
- Exploratory Testing
- Monkey Testing
- UI Testing
- Usability Testing
- Security Testing
- Performance Testing
- Load Testing
- Stress Testing
- Volume Testing
- Compatibility Testing
- Configuration Testing
- Installation Testing
- Globalization Testing
- Localization Testing
- Acceptance Testing
- Concurrent Testing
- Parallel Testing

## CHECK LIST

- Software\_Testing\_Checklist
- Testing\_Project\_Setup\_Checklist
- Website\_Testing\_Checklist



## **Selenium**

Introduction of Automation Testing  
What is automation testing  
Why Automation Testing is required?  
Types of Automation Testing  
Automation Tools  
Advantages of Automation

## **Introduction to Selenium**

What is Selenium  
Use of selenium  
When selenium can be useful in testing  
Features of Selenium

## **Selenium Components**

Selenium IDE  
Selenium RC  
Selenium WebDriver  
Selenium Grid

## **Introduction to Java**

Installing java  
What is eclipse?  
Configuring Eclipse  
Basic Selenium Program using java

## **Java concepts:**

Core Java Fundamentals  
Java Programming Language Keywords  
Class and Object  
Data Types  
Array Declaration, Construction and Initialization  
Flow Control, Exceptions, and Assertions  
Handling Exceptions  
Working with the Assertion Mechanism  
Object Orientation, Overloading and Overriding, Constructors  
Benefits of Encapsulation  
Overridden and Overloaded Methods  
Using the java.lang.String Class  
String Class methods  
Using the equals() Method with Strings, Wrappers and Objects  
Defining, Instantiating, and Starting POI API in java  
Reading/Writing Microsoft XLS Files  
Reading Properties File in Java  
Reading/Writing Text Files  
Collections: ArrayList, Set

## **Web Driver:**

WebDriver Interface  
WebElement Interface  
Handling Input fields, Buttons and creating custom xpaths  
Managing/Identifying Links with xpaths/css selectors  
Extracting More than one object from a page  
Extracting all links of a page/Bulk extraction of objects  
Extracting Objects from a specific area of a web page  
Finding whether object is present on page or not

Select Class in Selenium API  
Managing radio buttons and Checkboxes  
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WebDriverWait Class  
WebDriver.Timeout Interface  
ExpectedCondition interface and ExpectedConditions class  
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Concepts of Set Interface in Java  
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Handling certificate errors in secured websites  
Dynamic WebTable Handling  
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Handling Ajax Autosuggests  
Handling Frames in Web Page  
Handling cookies  
Managing javascript alerts  
Simulating front and back button  
Selenium Javadocs  
Moving a mouse on a Object and right clicking on it  
Finding Coordinates of a Web Object  
Handling CSS menu with Action class  
Handling CSS menu with JavaScriptExecutor  
Drag, drop, native events

## **Advanced Selenium Concepts:**

TestNG(Testing Framework)  
what is TestNG  
Why should we use TestNG Framework  
Integrate TestNG with Selenium

## **Log4j**

What is log4j  
Usage of Logger in Automation Testing  
Integrate Log4j in Selenium  
Selenium Grid  
How to Configure selenium Grid  
Run the Web Driver Tests using Selenium Grid

## **Maven**

what is Maven?  
what is the use of Maven in Automation Testing?  
How to Configure Maven \  
Execute Selenium WebDriver test using Maven

## **Jenkins:**

what is Jenkins?  
why should we use Jenkins in Automation Testing?  
How to run the Test cases using Jenkins without any manual interaction for Nightly builds.



## For More Details

To view additional Course Descriptions for all our training Courses visit – [www.GlobalEdx.com](http://www.GlobalEdx.com)

### Contact

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### Our Clients:

