SevenMentor
PVT.LTD

BECOME A MASTER IN
SOFTWARE
TESTING

Your Path to Mastery Begins Here!

SOFTWARE TESTING
Course Mission

SevenMentor Institute leads the way in providing cutting-edge IT Training and Skill Development across India. We have strived to establish an ideal learning atmosphere at all our training centres. We prepare our students to become dependable future professionals. Our institute aspires to promote universal access to learning for students. To achieve our mission of promoting better learning we invite all students to enroll in our Software Testing Course.

Join us today to make a fulfilling career in the Development sector.

SevenMentor
PVT.LTD

SOFTWARE TESTING STATISTICS:

INDUSTRY INSIGHTS

83% Websites have some form of Software Testing based Applications

34% Year on Year Growth For All Software Testing Jobs

Learn SOFTWARE TESTING and Be in Demand Always!

In today's rapidly evolving Tech Industry, being a skilled Software Testing is a valuable asset. There is an unprecedented requirement of all rounders and dynamic developers in the website building domain. SevenMentor's comprehensive Software Testing Course is designed to equip you with the knowledge and practical skills to handle every aspect of Software Testing.
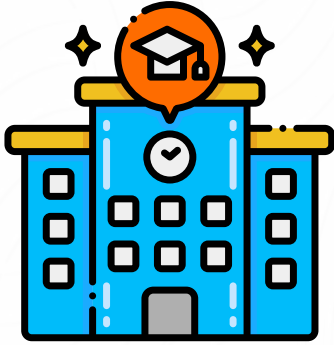
SevenMentor
PVT.LTD

Become an Omnipresent
SOFTWARE TESTING

Software Testing is like being the architect of the digital world. It's the art of seamlessly connecting the visible, user-facing Front-End with the hidden, behind-the-scenes back-end of web sites and applications. Software Testing possesses a unique set of skills, combining the creative flair of a front-end developer with the problem-solving prowess of a back-end developer. Whether you dream of working with innovative startups, established tech giants, or even launching your own projects, the possibilities are endless.

Start Learning to Start Applying:

Gain practical SOFTWARE TESTING experiences through well designed courses, latest tools and excellent teachers.
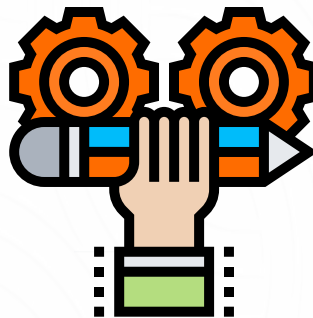
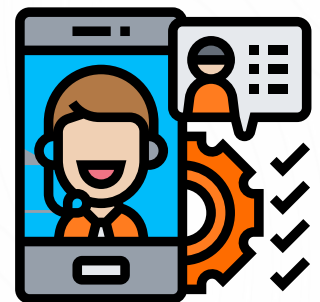**Experienced Faculty**

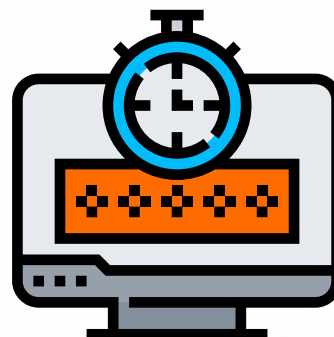**Flexible Scheduling**

Hands-On Learning

Mock Interview Sessions

Real-World Projects

Career Support

Comprehensive Curriculum

Lifetime Access

SevenMentor
PVT.LTD

MANUAL TESTING

Pre-requisites
1. Enthusiasm of learning new technology | 2. Analytical and logical mind

MODULE 1: SOFTWARE TESTING INTRODUCTION

- What is software testing?
- Why is testing necessary?
- What exactly does a software tester do?
- Testing Principles Guidelines for new testers
- What makes a good tester?
- Demand of tester jobs in current market
- Types of application
- Standalone application
- Client Server Application
- Web Based Application
- Mobile application
- Daily routine of a tester

MODULE 2: SOFTWARE DEVELOPMENT LIFE CYCLE

SDLC Phases
- Requirements Phase
- Analysis Phase
- Design phase
- Coding Phase
- Testing phase
- Delivery and
- Maintenance Phase

SDLC Models
- Waterfall Model
- Spiral Model
- Prototype Model
- V Model
- Hybrid Model
- Agile Model
- Scrum
- Kanban
- What is Left Shift in Agile/testing?

MODULE 3: SOFTWARE TESTING METHODOLOGIES

White Box Testing
Black Box Testing

Non-Functional Testing

Functional Testing
- Functional Testing
- Integration Testing
- System Testing User
- Acceptance Testing
- Sanity/Smoke Testing
- Regression Test
- Retest
- Reliability testing

Performance Testing
- Compatibility Testing
- Endurance Testing
- Security Testing
- Recovery Testing
- Ad-hoc Testing
- I18N Testing
- L1ON Testing
- Grey Box Testing

MODULE 4: HOW TO WRITE TEST CASES

- Test case design techniques
- Boundary value analysis
- Error guessing
- Equivalence class partitioning
- Test case template and attributes in it
- Writing test cases and practice
- Review of test cases
- Review, inspection, walkthrough

SevenMentor PVT.LTD

MODULE 5: SOFTWARE TESTING LIFE CYCLE

- STLC
- Test Plan
- Use of test plan
- Test plan content
- Traceability Matrix

MODULE 6: DEFECT MANAGEMENT

- Defect / Bug life cycle
- Severity and Priority
- Defect Tracking
- Defect Reporting
- Defect logging template
- Test Metrics to monitor sprint

MODULE 8: PROJECT

MODULE 7: WHAT IS JIRA SOFTWARE

- Introduction to Jira
- How to create account in Jira
- Workflow in Jira
- Creating project in Jira
- Creating test cases in Jira
- Creating Sprint
- Creating EPIC, User story, taks in Jira
- Creating test cycles in Jira
- Raising Defects in Jira

SevenMentor
PVT.LTD

CORE JAVA FOR AUTOMATION TESTING

Pre-requisite

1. Enthusiasm of learning new technology

2. Analytical and logical mind

3. Added advantage if a candidate has knowledge

of any programming language but not mandatory

MODULE 1: INTRODUCTION TO JAVA

- Introduction
- Features of Java
- JDK, JRE & JVM
- Installation of JAVA, Notepad++ and ECLIPSE
- Setting environment variables
- Verify Java is install on your machine

- Compile and running a class using command
- line using javac and java
- Defining multiple classes
- Restriction on public class
- Access modifiers
- What is print, println, printf and their
- differences
- Escape sequence characters

MODULE 2: BASICS OF JAVA

- Structure of programming language
- Variables
- What is variable and its usage
- How to declare and initialize variables
- Rules to define variables
- What is CamelCase standard?
- Datatypes
- Operators
- Keywords
- Executing first program in JAVA
- Java class skeleton

MODULE 3: CONTROL FLOW STATEMENTS

- if condition
- If – else
- If – else – if
- Nested if
- Ternary operator & nested ternary operator
- Switch caseSwitch case fall through
- Restrictions passing parameter to Switch Statement

MODULE 4: LOOPING IN JAVA

- For Loop
- Enhanced/Modern for loop
- While Loop
- Do – while Loop
- Continue statement
- Break statement
- Use of System.exit
- Inner Loop / Nested Loop
- for within a while and vice versa
- Logical programs using loops

Module 5: ARRAY IN JAVA

- Use of array
- Array types -1/2/n dimensional array
- Delcaration, initialization of 1/2/n
- dimensional array
- Programs using array
- Passing array to a method

Module 6: STRING

- What is String?
- Different ways to create string
- String Constant Pool
- Use of equals and ==
- StringBuffer, StringBuilder
- String parameter passing to a method

MODULE 7: METHODS IN JAVA

- Declaration
- Parameterization
- Types of parameterization for methods
- Returning value
- Auto promotion
- Method signature
- Variable length arguments or VarArgs

MODULE 8: TYPES OF VARIABLES

- Local variable
- Instance variable
- Static / Global variable

MODULE 8: TYPES OF VARIABLES

- What is OOP paradigm?
- Objects
- How to declare object?
- Default value of an object?
- Class
- Types of classes
- What a class can contain?
- Getter and setter methods and its usage
- Constructor
- Constructor overloading
- Types of Constructors
- Constructor chaining
- Main pillars of OOPs

- Inheritance
- Use of Inheritance
- Single inheritance
- Multilevel inheritance
- Hierarchical inheritance
- Multiple inheritance
- Hybrid inheritance
- Polymorphism
- Method overloading
- Use of Method overloading
- Method overriding
- Use of Method Overriding
- Restrictions on method overridding
- Abstraction
- Abstract class
- Interface
- How to achieve multiple inheritance
- in Java?
- Why is multiple inheritance is not
- possible using classes in java?
- super keyword and super() method
- this keyword and this() method
- Final keyword wrt class, variable and
- method
- Static and instance blocks
- Encapsulation
- Encapsulation types: 1:1, 1:many, many:1,
- Many to Many
- Passing object to a method

- Eclipse features - short cuts, writing methods, running java code using short cuts
- Singletone desing pattern
- Explanation of System.out.print/ln

Module 10: WRAPPER CLASSES

- What is Wrapper class?
- Usage of Wrapper class

Module 11: PACKAGE/CLASS IMPORT AND TYPE CASTING

- Package
- What is package?
- Subpackage
- How to import package and classes?
- **Type Casting**
- implicite Type Casting
- Explicite Type Casting

MODULE 12: COLLECTIONS IN JAVA

- What is collection framework?
- Use of collections
- Major interfaces in collection framework
- Classes implements collection interfaces
- Characteristics of Hashmap, Hashset, ArrayList
- Differences among collection classes
- Logical programs using Collection framework
- Comparator and Comparable
- Collections class
- Arrays class

SevenMentor
PVT.LTD

10

MODULE 13: EXCEPTION HANDLING IN JAVA

- Concept of Exception, Error and Exception handling
- Types of exception - checked and unchecked
- Try – catch block
- Multiple catch block
- Finally block
- Try with resources
- throws and throw
- Catching multiple exception in one catch
- Creating and using custom exception

GUI AUTOMATION USING SELENIUM WITH JAVA

Pre-requisite

1. Enthusiasm of learning new technology

2. Analytical and logical mind

3. Core Java knowledge and programming is mandatory

MODULE 1: GETTING STARTED WITH SELENIUM

- What is Selenium WebDriver?
- Advantages & limitations of Selenium
- Components of Selenium
- Comparison of Selenium with other tools
- What Selenium can not do?

MODULE 2: SELENIUM WEBDRIVER

- Introduction
- Evolution
- Architecture
- Configuration of Selenium Webdriver to project
- Automation using Selenium WebDriver
- Important methods in Selenium WebDriver

SevenMentor
PVT.LTD

MODULE 3: LOCATOR TECHNIQUES IN SELENIUM

- Introduction to Locators
- Locating web elements using
- id
- name
- className
- tagName
- linkText
- partialLinkText
- cssSelector
- xpath
- Types of X – Path
- Absolute and Relative X- path
- xpath axes
- User Friendly locators in Selenium 4

MODULE 4: UI TESTING IN SELENIUM PART – 1

- Types of Alerts
- Handling Alerts
- Handling multiple windows & tabs
- Verify Page title in Selenium WebDriver
- Navigation in selenium
- Handling Edit-box
- Handling links
- Handling Radio button & Check-box

MODULE 5: UI TESTING IN SELENIUM PART – 2

- Handling Drop Down using Select class
- Methods under Select class
- Handling Drag and Drop
- Resize operations
- Handling Mouse Hover
- Keyword Events using Action class
- Scrolling on a web page using JavaScript Executor
- Handling jQuery dropdown list
- Keyboard handling using Keys enum
- Reading properties file
- Handling SVG element
- Handling Shadow Element

Module 6: WAITS IN SELENIUM

- Implicit Wait
- Explicite Wait
- PageLoadTimeOut

MODULE 7: UI TESTING IN SELENIUM PART – 3

- What is an Iframe
- Identifying an IFrame
- Switching to specific IFrame in Selenium WebDriver
- Handling File upload
- How to take screenshot using selenium
- Taking a full page screenshot using Ashot
- Handling WebTable
- Handling WebCalendar

SevenMentor
PVT.LTD

12

MODULE 8: TESTNG

- Configure Eclipse with Selenium and TestNG
- Create First TestNG Program and Execute
- Different annotations and their usage
- DataProvider 7 its usage (including hashmap, All data providers in one file)
- Excel Reading for Data Provider
- Annotations order of execution
- Helping Attributes in TestNG
- Assertions in TestNG - Hard and Soft assertions
- Parallel test execution capability for test cases and data provider
- Use of testng.xml
- Parameter passing using testng.xml
- TestNG Listeners
- Default Reports using TestNG
- Different 3rd party reports - Extent, Allure, Serenity, tesult etc
- Implementing Extent report
- Design and develop industry standard framework

MODULE 8: TESTNG

- Configure Eclipse with Selenium and TestNG
- Create First TestNG Program and Execute
- Different annotations and their usage
- DataProvider 7 its usage (including hashmap,
- All data providers in one file)
- Excel Reading for Data Provider

Module 9: PAGE OBJECT MODEL

- What is POM?
- What is POM?
- Use of POM
- Advantages of POM
- Creating page classes
- Method chaining

Module 10: BDD - BEHAVIOUR DATA DRIVEN

- What is BDD?
- Advantages & drawbacks of BDD
- Introduction to Cucumber
- Gherkin syntax in Cucumber
- Practical usage of BDD
- Scenario, Scenario Outline
- Feature file Creation
- Step file creation
- Background
- Configuring BDD to project
- Implementation of BDD framework using Cucumber

Module 11: MAVEN

- Introduction to Maven
- Maven installation/unzipping
- Verification if Maven present on machine
- Maven Usage
- Creating Maven project and configure
- Selenium Webdriver

SevenMentor
PVT.LTD

- configuring Maven with Eclipse
- Test Execution in Maven
- Creating pom.xml file
- All about pom.xml
- Maven Integration tool
- Maven goals
- Maven Life Cycle

Module 12: VERSION CONTROL SYSTEM - GIT & GITHUB

- What is POM?
- What is POM?
- Use of POM
- Advantages of POM
- Creating page classes
- Method chaining

INTRODUCTION TO API TESTING USING POSTMAN

Pre-requisite

1. Enthusiasm of learning new technology

2. Analytical and logical mind

MODULE 1: BASICS OF API TESTING

- Introduction to API
- Monolethic VS micro services architecture
- Difference between API & Web services
- Difference between SOAP & REST API
- Architecture of Web application
- Examples of APIs

MODULE 2: INTRODUCTION TO POSTMAN TOOL

- Postman features
- Installation of Postman
- Workspaces in Postman
- HTTP methods and its examples
- Variables and environment

BASICS OF SQL

Pre-requisite:

1. Enthusiasm of learning new technology | 2. Analytical and logical mind

- What is Data & Database ?
- DBMS & RDBMS
- MySQL Server
- Introduction to – Structured Query
- Language

- Data types
- DML
- DDL
- Where clause
- Select distinct
- Order by keyword

- Group by
- Having
- Like operator
- In operator
- Between operator
- Aggregate function

Your Success Is Our Priority:

Every student at **SevenMentor** gets personalized guidance, Mentorship, and ample opportunities to address individual questions and concerns. All our sessions are designed to be engaging, interactive, and tailored to your learning pace, ensuring you grasp each concept with clarity.

Trainer Profile

Our Trainers having 20+ yrs. of corporate experience in the field of testing in which training experience is more than 7 yrs. My expertise is in Manual Testing, Core Java, GUI automation using Selenium tool, API testing using postman and Rest assured, performance testing using JMeter, and mobile testing using Appium tool.

Certified in CSQA, ITIL, CSM, PMP, and Certified tester in AI.

THINGS THAT SET US APART FROM THE REST:

SevenMentor prepares you well so that you can embark on a rewarding career in Software Testing through our training.

Hands-On Projects: Gain practical experience by working on real-world projects, building a robust portfolio that will impress potential employers.

Career Support: We're dedicated to your success! Benefit from career guidance, resume building, interview prep, and job placement

Flexibility: Our flexible schedule options allow you to learn at your own pace, making it perfect for both beginners and experienced developers looking to upskill.
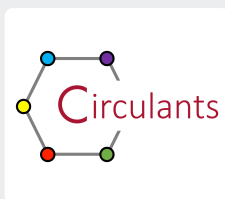
Community: Join a vibrant community of like-minded learners, where you can collaborate, share ideas, and network with peers.

Our Students are at reputed Tech Companies
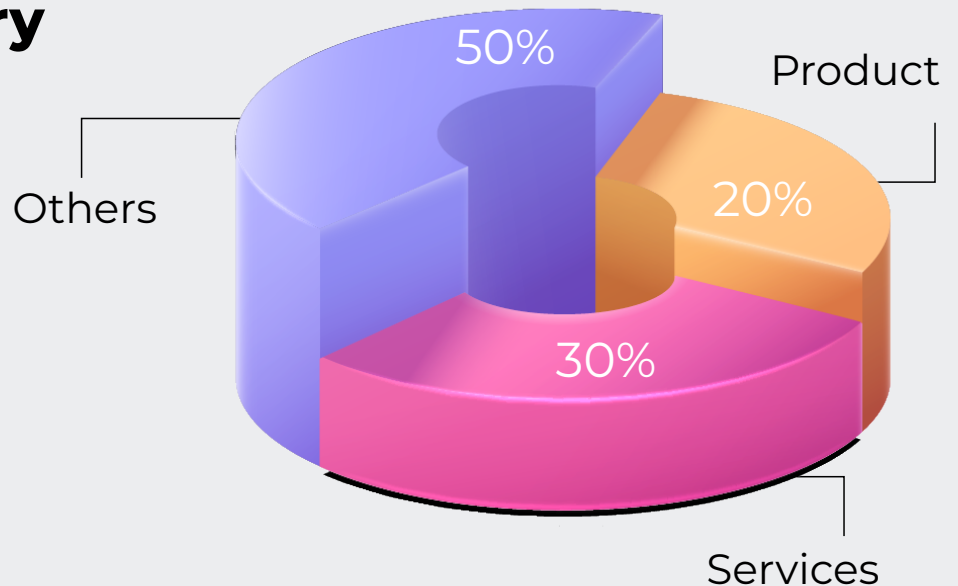
BAJAJ FINSERV — GT FINANCIAL SERVICES — INFERYX — The STRELEMA — pivotchain — LONAR TECHNOLOGIES

Simplify Healthcare — OMFYS — Scymes — KALA Genset Source of Power — Altum Credo Home Finance — iNFOWORLD THE SOFTWARE PEOPLE

NABLA INFOTECH — Circulants — SRVmedia Insights | Ideas | Impact — Rabbit&Tortoise TECHNOLOGY SOLUTIONS — NIMAP INFOTECH FOCUS TO REDEFINE — Integs Cloud
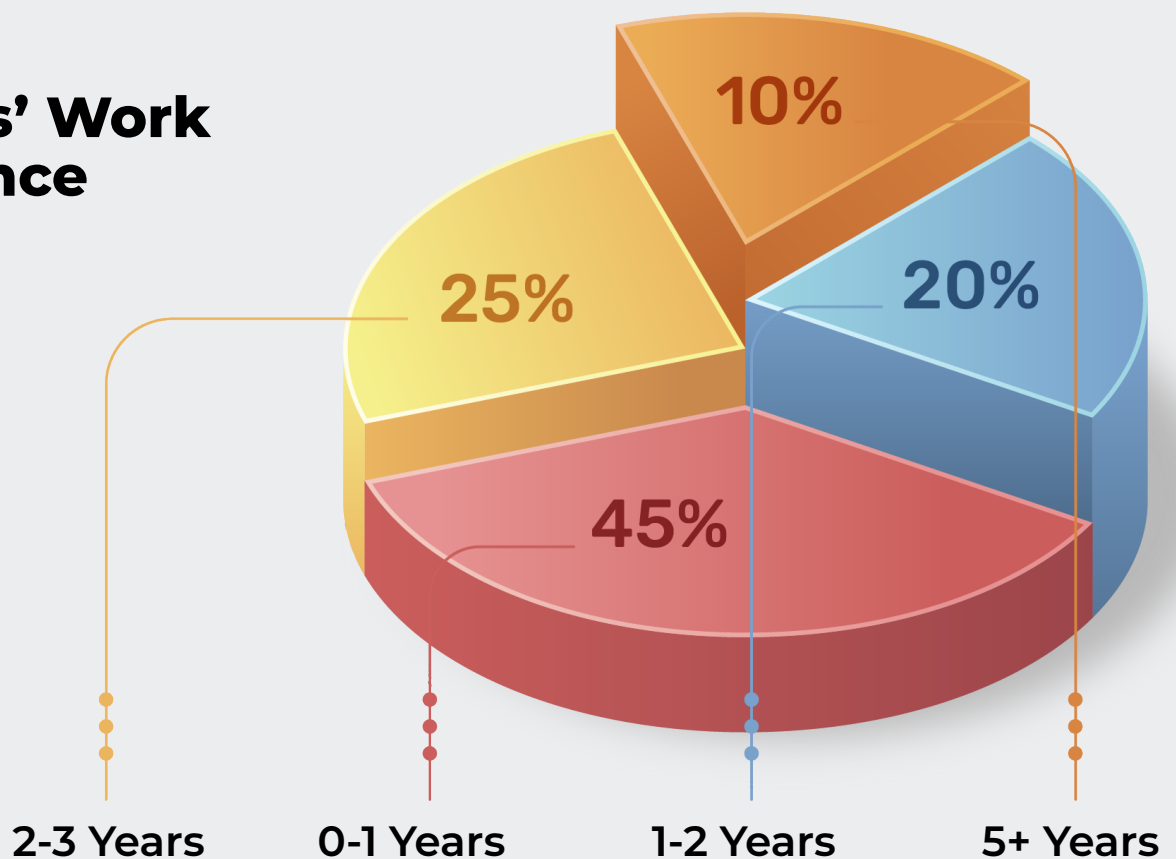
SevenMentor PVT.LTD

16

Success is around the corner!

Consider the potential earnings and opportunities that a career in Software Testing can offer. With Software Testing you'll be well-positioned to secure a job that provides you with a stable and potentially prosperous future.
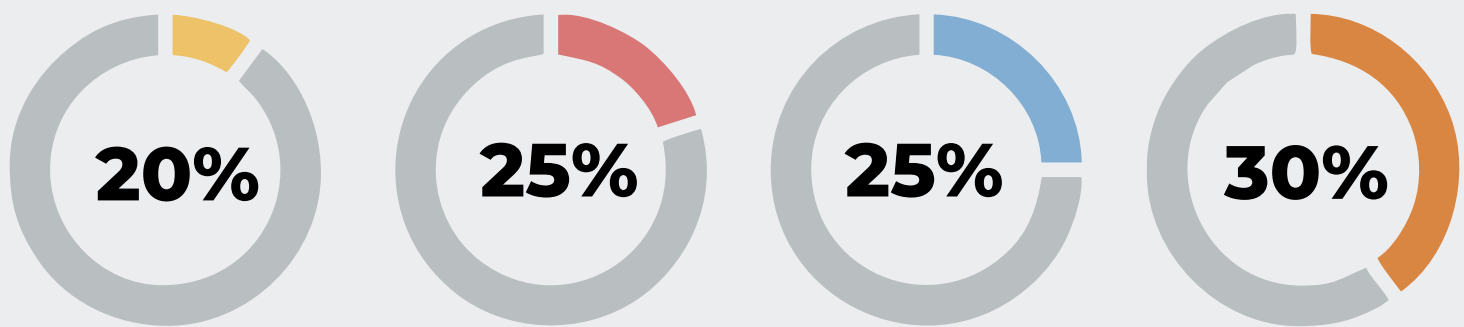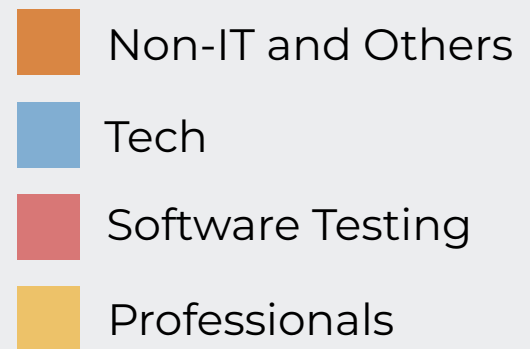
Learners' Industry Background

- 50% — Others
- 20% — Product
- 30% — Services

Learners' Work Experience

- 25% — 2-3 Years
- 45% — 0-1 Years
- 20% — 1-2 Years
- 10% — 5+ Years

SevenMentor
PVT.LTD

17

Learners' Expertise

20% **25%** **25%** **30%**

- -

Begin Your Journey Towards Better Future:

The global Software Testing vacancies will grow by 55% and generate 4 million new jobs by 2030.

The global vacancies for Software Testing will grow by 55% and generate 4 million new jobs by 2030.

SevenMentor
PVT.LTD

18

Affordable Training without Compromise:

We understand that pursuing your dreams in App and Software Testing shouldn't be a financial burden. That's why we've made afford ability a cornerstone of our Web Full Stack. We believe that quality education should be accessible to everyone, and we've structured our program to reflect this commitment. Our Software Testing takes you on an exciting journey but at a substantially low price.

How to become a great Web Full Stack ?

- Enroll at **SevenMentor Institute**

- Get hands-on training from **experienced teachers**

- Receive Industry-recognized **Software Testing Certification**

- Work for leading **MNCs** through our **on-campus interviews**

SevenMentor
PVT.LTD

19

Success is Just a Call Away!

So if you are ready to code your way to success? Enroll now at SevenMentor and unlock your potential as a Software Testing. Our counsellors are a call away and they will be more than happy to talk with you. Anyday, Everyday, we are there for you!

Request For Call Back

📞 020-7117 7008