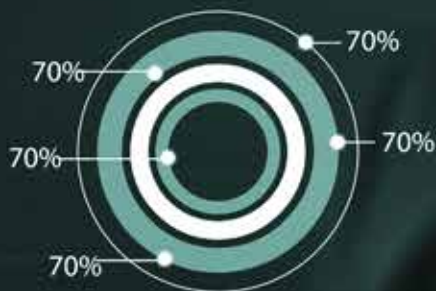


- SHOW BUSINESS
- NETWORK
- MUSIC
- CINEMA
- BUSINESS/FINANCE
- WORLD NEWS



SOFTWARE TESTING

Manual & Selenium Testing
Certification Training With
Job Interview Guarantee (JIG)*



*Terms & conditions apply

A Word from the CEO



Mr. Ram Tavva

– CEO and MD of Excelr Solutions

An alumnus of IIM-C and a PMP-certified trainer with 25+ years of experience.

Whether you are looking for a pay raise, a career transition, or a new job, upskilling is an unceasing necessity. As a training provider, we understand that this need constantly changes with time and technological evolution, and we tailor courses accordingly. We believe that complete learning is a blend of theory and practice. Hence, we offer the kind of post-training support for your assignments and projects that makes us stand apart from our counterparts.

“Our mission is to accompany people in their journey to excellence and empower them to realize their dream careers.”

Our Greatest ACHIEVEMENTS



Best Training Institute by
SiliconIndia on Analytics 2015



Top 20 Most Promising
PMP Training Institutes in India 2018



Top 20 Most Promising
Business Intelligence(BI) Solution
Provider Companies.



4.8 Stars on Google Reviews
for our Training and Support.



We're a Deloitte Technology Fast 50 India Winner



We have been recognized as one of the fastest growing technology companies in the Deloitte Technology Fast 50 India Award Ceremony 2022.

This achievement for ExcelR, which has been accompanied by a staggering average growth rate of 257% in three years, marks an incredible milestone and has propelled our transformation into a global company.

This reflects our dedication towards “Raising Excellence” and demonstrating the company’s professionalism. Our top priority is to provide unparalleled training and consulting to students and professionals in India and abroad so they can shape their future in the right direction.

On the heels of this good news, we are more committed than ever to creating a state-of-the-art platform for all of you to succeed in your career and come out with flying colors.

We're Also a Partner of FutureSkills Prime, A MeitY-**NASSCOM**® Digital Skilling Initiative

We have successfully collaborated with FutureSkills Prime, a first-of-its-kind partnership between MeitY and NASSCOM, to build a digital skilling ecosystem and make India a global digital talent in emerging technologies.

This collaboration will facilitate continuous learning and knowledge enhancement of graduates and working professionals with regard to their aspirations and aptitude, improving their employability.

We’re proud to share in and contribute to the national interest, and we will continue to play a significant role in the digital upskilling revolution in the years to come.



Software Testing – Manual & Selenium Testing: An Overview

With 135+ hours of learning, our Software Testing course is customized for freshers and working professionals to build their careers around software testing. You'll work on labs, assignments, and capstone projects integrated with the program and gain a thorough understanding of the Software Development Life Cycle, Manual Testing with Agile, Core Python, Automation Testing via Selenium, API Testing, Fundamentals of DevOps, MySQL, Core Python, and much more.

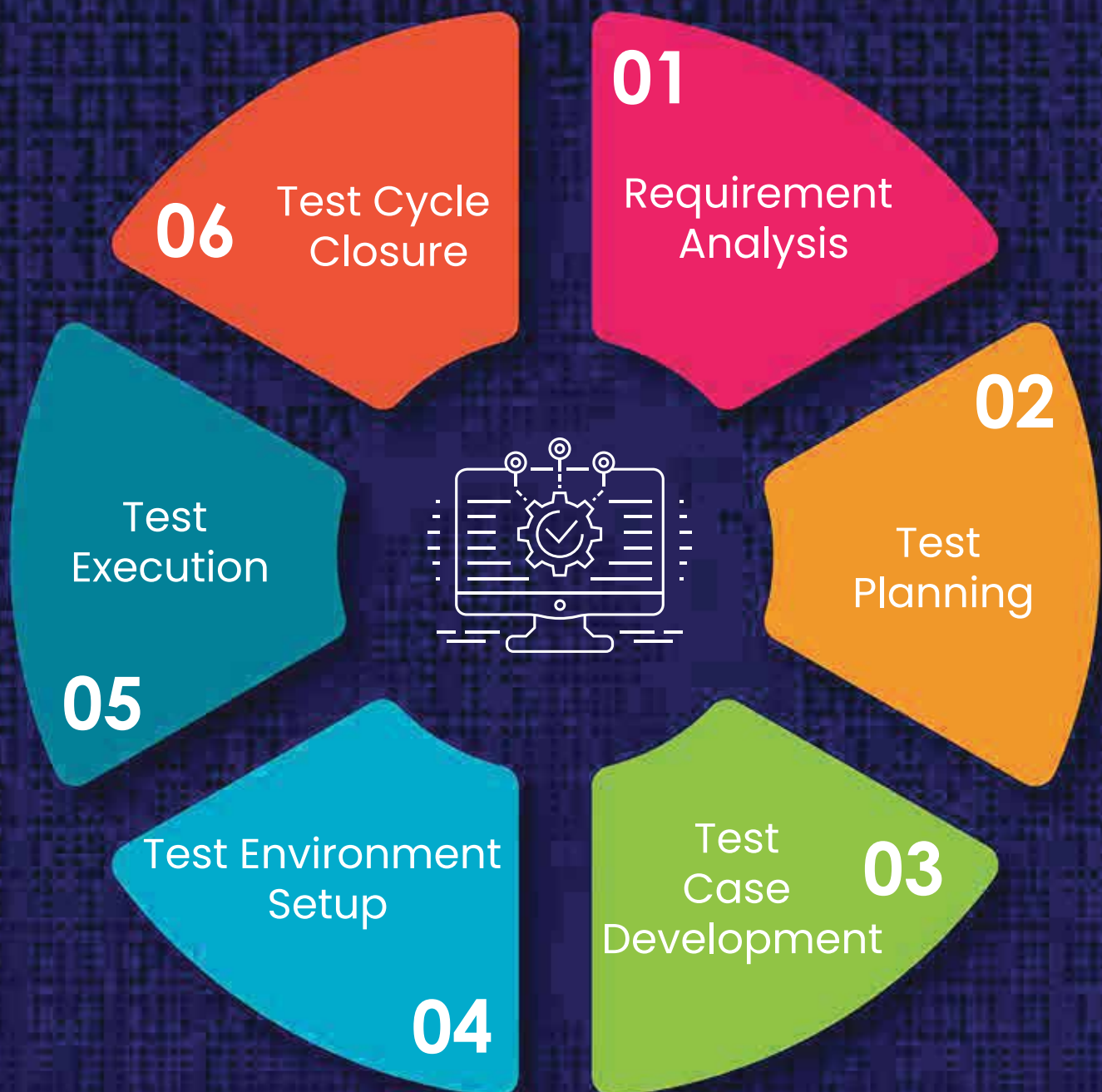
The detailed curriculum modules and other highlights showcased in this brochure will explain why you should start with us right away.



What is Software Testing?

Software testing is a thriving domain that combines various manual and automation tests using DevOps and Agile, resulting in a significant decrease in the timelines of software development processes and ensuring the new releases are bug-free and ready for end users before deployment.

Software Testing Life Cycle



Why Should You Invest in This Course?

Job vacancies
in India

10,400+

Job Satisfaction

65%

QA Analysts & Software
Testers to grow by

22%
by 2029

Avg. Software Test
Engineer Salary

4 - 4.9 LPA
(0-1.5 years Experience)

Source(s):
Naukri, Glassdoor, Ambitionbox, Indeed,
Statista, Career Bliss

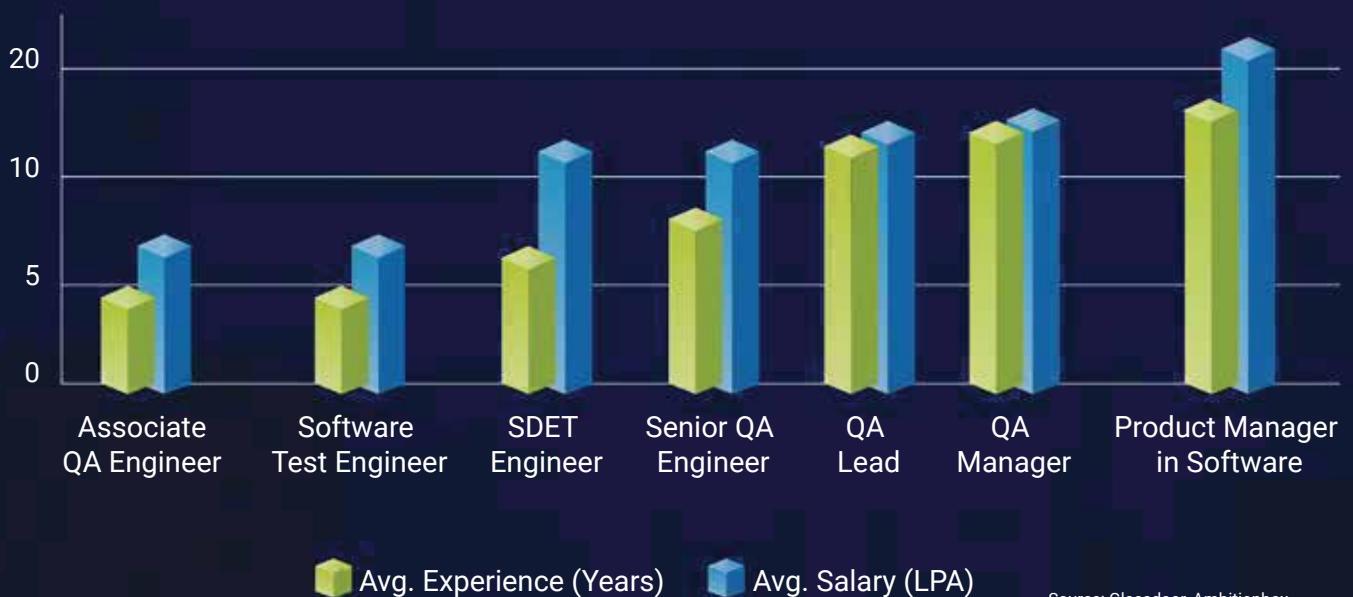


Top Companies Hiring Software Test Engineers



and many more...

Career Progression and Salary Trends

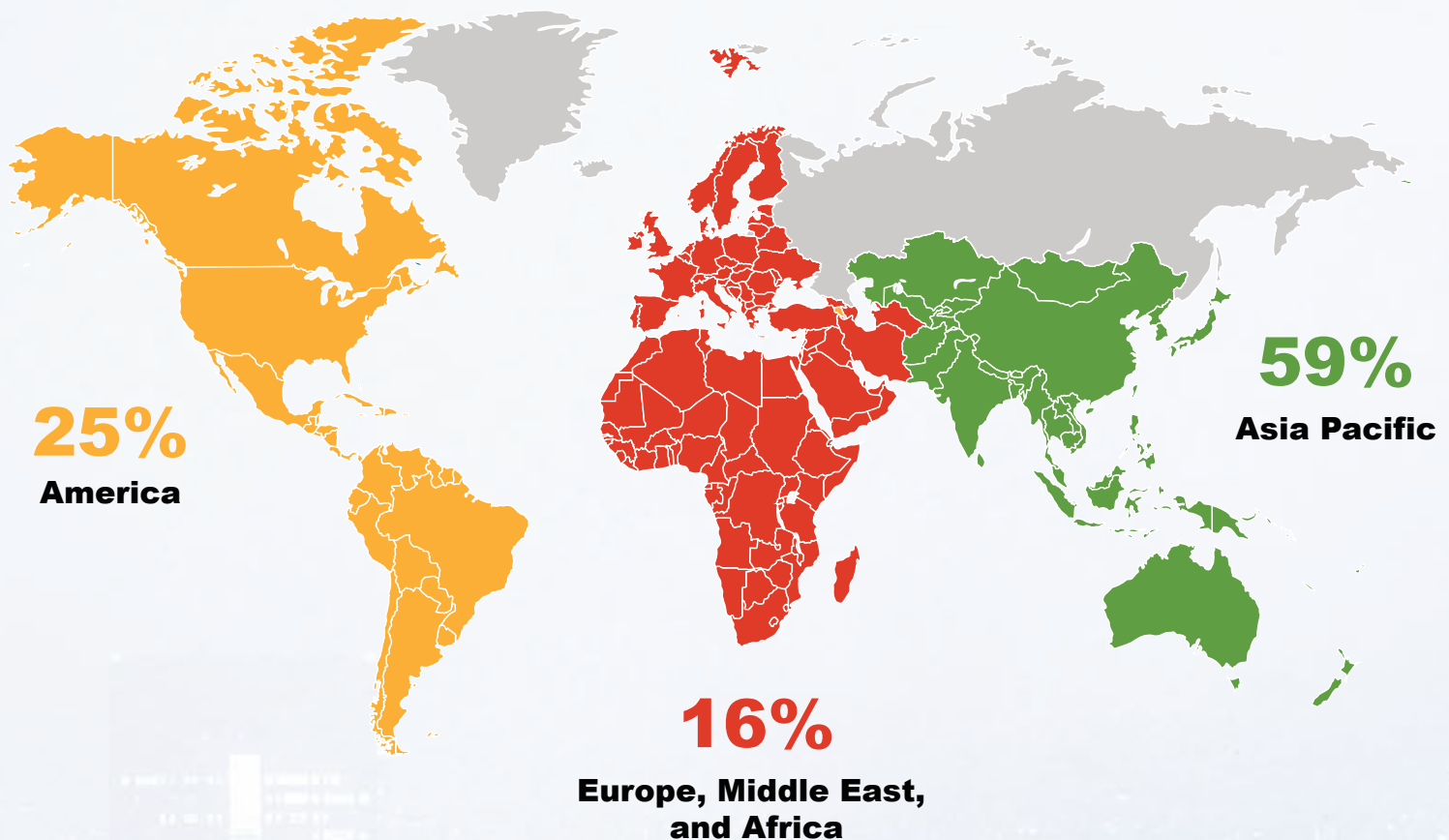


Source: Glassdoor, Ambitionbox

GLOBAL SOFTWARE TESTING MARKET

The software industry is expected to grow to \$63.9B by 2028 at a CAGR of 18.36%. This will unlock numerous career opportunities in the software testing domain.

Source: Marketsandmarkets



TOP-INDUSTRIES HIRING SOFTWARE TEST ENGINEERS



IT Services
60%



Finance
08%



Manufacturing
11%



Healthcare
07%



Other
14%

Course Highlights

Our Software Testing course is a comprehensive program that takes you from the classroom to the workplace. Once you complete your training, internship, and assessments successfully, you'll get into the placement pool. Once in it, you'll have guaranteed job interviews until you receive the first job offer. We have tie-ups with 2000+ companies for this job interview assurance program.



Guaranteed job interviews
until you get placed



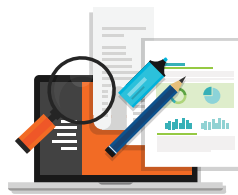
135+ Hours of Blended Learning



25+ Skills Covered



12+ Tools Covered



10+ Capstone Projects



80+ Case Study Analyses



50+ Hours of
Internship With AiVariant



1000+ Interview
Preparation Questions



Technical Presentations
by Participants

Skills Covered



Software Testing



Manual Testing



Agile Methodology



Jira Best Practices



Core Java



OOPS Concept



Automation Testing



Selenium Webdriver



Page Object Model



TestNG Framework



Data-Driven Testing



Hybrid Framework



API Testing



CI/CD Pipeline



Testing Process



Testing Life Cycle



Test & Defects Management



Design Techniques



REST API



Cucumber



Functional Testing



Black Box Testing



White Box Testing



Django Framework



DevOps Fundamentals

Tools Covered



Eclipse IDE



IntelliJ



TestNG



Maven



GIT



Python



POSTMAN



DevOps Basics



JIRA



MySQL

Value Added Courses

Our course curriculum doesn't stop at the core concepts of software testing. We also provide complimentary value-added courses like **Core Python, MySQL, and DevOps**, which go hand-in-hand with the core concepts of the Software Testing course and prove essential in the software testing domain. Gaining a comprehensive skill set will give you an edge over your peers during interviews.



Core Python

Python, a simple and versatile programming language, has a strong binding with Selenium Webdriver. Learning Python is an added advantage for a Software Test Engineer.



Fundamentals of MySQL

Tests using automation methods do not require coding but a free, easy-to-use, highly secure, platform-friendly database that works on simple, customizable code. MySQL is one such relational database management system, which is important to know.

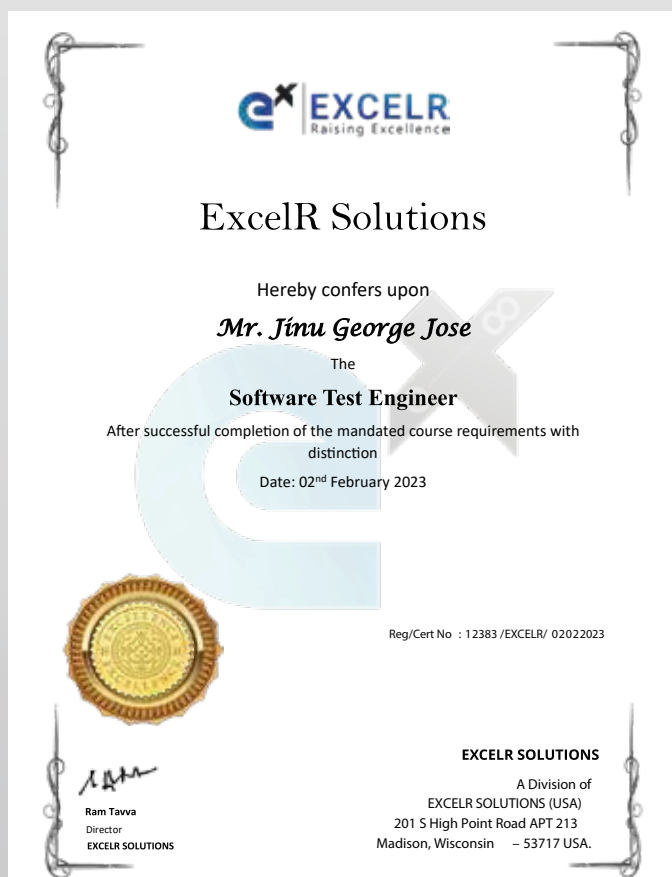


Overview of DevOps

The design testing process needs to be agile, effortless, and error-free, which is possible through DevOps pipelines.

Your 2-in-1 Certification

Certificate from **ExcelR**



Internship Certificate from **AiVariant**





Curriculum:

Manual Testing

Module 1: Fundamentals of Testing

- Fundamentals of testing
- What is testing?
- Testing principles
- What is software?
- Types of software applications (desktop, web, & mobile)
- Types of organizations
- Type of domains
- Project & team members
- Testing throughout the software life cycle
- Software development models (overview of all models) - SDLC
- Waterfall model
- Agile model, V Shape, Spiral model (advantages & disadvantages), roles ceremonies & artifacts
- Sprint, Scrum, test management tool (JIRA, ZEPHYR)

Module 2: Fundamental Test Process

- Fundamental test process
 - Overview of understanding requirements and creating test scenarios, test design, test planning, test execution, test report
- STLC

Module 3: Test Types & Test Levels

Test types:

- White-box testing
- Black-box testing
- Functional testing
- Smoke & sanity testing
- Regression and retesting
- User acceptance testing - alpha & beta programs
- Non-functional testing (overview)
- Usability testing
- UI UX testing
- L10N, I18N, G11N testing
- Compatibility testing
- Performance testing
- Security testing

Environments:

- Development, QA, UAT, Prod

Test levels:

- Unit testing
- Integration testing
- System testing
- UAT testing
- Prod testing



Module 4: Test Design Techniques

Identifying test conditions and designing test cases

Categories of test design techniques:

- Structure-based or white-box techniques (overview)
- Specification-based or black-box techniques
- Experience-based techniques
- Traceability matrix & test coverage
- Defect life cycle, priority & severity of defects
- Real-time defect reporting and practicals

Module 5: Test Management

- Test organization
- Test plans, estimates, and strategies
- Test progress monitoring and control
- Entry & exit criteria

Lab Sessions: Creating defects in Jira

Practical on Jira Tool for assignments and project work

Lab Sessions: Creating test cases from requirement

Practicals on creating defects in Jira

Introduction to API Testing (via Postman Tool)

- API testing (Manual Postman)
- Why API?
- Types of API (Rest & SOAPUI)
- API Collections
- Basics of API Testing (Get, Post, Put, and Delete)
 - a. Understanding of Path, Query, Parameters, and Headers
 - b. Authentication
 - c. Add Place API and Execution through Postman
 - c. Response Code of API
 - d. Validation and assertion on response
- Requirements of API
- Understanding the API contract



Introduction to Selenium

- What is Automation?
- Why Automation (Manual vs Automation)?
- Scope of Automation tester in the market
- What is Selenium?
- Why Selenium?
- Advantages of using Selenium

Selenium Testing

Selenium Testing

- What is software testing? Definition, basics, & types
- Sanity testing vs Smoke testing: Introduction & differences
- What is a test scenario? Template with examples
- Defect Management Process in software testing (Bug Report template)
- Agile methodology & model: Guide for Software Development & Testing

Fundamentals of Java

- Introduction to JAVA & installation of JAVA & Eclipse
- Basic Java, Java operators, Java data types
- If Else statements, Loop statements, Constructors

Java Collections

- Arrays, 2D Arrays, ArrayList, List
- Collection framework

Java Strings

- Introduction to Strings in Java
- All the String validation methods

Java Variables & Methods

- Variables in Java
- Methods in Java

Java Access Specifiers

- Access Specifiers in Java
- Constructors in Java



Java OOPS Concepts:

- Class, Object, & Packages
- Inheritance
- Polymorphism
- Abstraction
- Encapsulation

Exception Handling:

- Try catch finally block, interfaces, file handling

Selenium Module 1:

- What is Automation Testing?
- What is Selenium?
- What is WebDriver?
- Features, Architecture of Selenium
- Download Selenium Jars
- Locators in Selenium (id, name, class name)
- Dynamic CSS and XPath selector creation
 - Following sibling
 - Preceding sibling
 - Ancestor
 - Parent
- Invoking for Web browsers (Chrome, Firefox, Edge),
- Navigation commands, WebDriver commands, FindElements command,
- Waits in Selenium
- Identifying and interacting with HTML elements using WebDriver

Selenium Module 2:

- Check Box & Radio buttons, Drop Down, Multiple Selects,
- WebTable Handling, Alerts, Handling iFrames, Window Handles
- Action class: Mouse events, click, doubleClick, contextClick, dragAndDrop, clickAndHold, release, Tooltip verification, Keyboard events
- JavaScriptExecutor, how to handle hidden elements, how to handle broken links,
- How to upload & download files, take screenshot
- Excel handling using Apache POI, reading & writing from Excel sheet
- Introduction to Maven repository & commands, POM.XML

Selenium Module 3:

- TestNG basics, create TestNG.XML file/test suite
- Run from TestNG and tags in TestNG.XML file
- TestNG Annotations – Hands-on to explain how it's used in the projects
 1. dependsOnMethods & dependsOnGroup
 2. Priority
 3. Groups
 4. DataProvider
 5. TestNG Listeners, Log 4j



Selenium Module 4:

- Types of Frameworks:
- Data-Driven
- Page Object Model
- Keyword Driven
- Hybrid Driven
- BDD Cucumber (Overview of all frameworks)
- Cucumber framework creation with POM
- Cucumber framework creation with POM & Executing Automation scripts using BDD Framework

Value-Add Courses

Python

Intro

- Python Introduction – Programming Cycle of Python
- Python IDE and Jupyter notebook

Variables

- Variables, Data types

Code Practice Platform

- GitHub, HackerRank, Code Wars, and Sanfoundry accounts creation
- Number, String, List, Tuple, Dictionary

Operators

- Arithmetic, Comparison, Assignment, Logical, Bitwise operator

Loops

- While loop, For loop, and Nested loop
- Conversions Number type conversion – int(), long(), float()
- Mathematical functions, Random functions, Trigonometric functions

String

- Escape char, String special operator, String formatting operator
- Built in string methods – center(), count(), decode(), encode()

List

- Accessing values in list, Deleting list elements, Indexing, Slicing & Matrices
- Built in Function – cmp(), len(), min(), max(), list comprehension



Tuples

- Tuples - Accessing values in Tuples, Delete Tuples elements, Indexing, Slicing & Matrices
- Built in tuples functions - cmp(), len ()

Dictionary

- Accessing values from dictionary, Deleting and updating elements in dictionary
- Properties of Dist., Built-in Dist functions & Methods, Dictionary comprehension
- Date & time - Time tuple, calendar module, and time module

Function

- Define function, Calling function
- Pass by reference as value, Function arguments, Anonymous functions, Return statements
- Scope of variables - local & global, Decorators and recursion
- Map reduce and filter

Modules

- Import statements, Locating modules - current directory, Pythonpath
- Dir() function, global and location functions and reload () functions, Sys module and subprocess module
- Packages in Python

Files

- Reading keyboard input, input function
- Opening and closing files, Syntax and list of modes
- Files object attribute - open, close
- Reading and writing files, file position

Renaming and deleting files

- Pickle and Json
- Directories
- mkdir() method, chdir() method, getcwd() method, rmdir() method

Exception Handling

- List of exceptions - Try and exception
- Try- finally clause and user-defined exceptions

OOP

- OOP concepts, Class, Objects, Inheritance
- Overriding methods like _init_, Overloading operators, Data hiding



Regular Expressions

- Match function, Search function, Matching vs Searching
- Regular exp modifiers and patterns

SQLite and MySQL

- Database connectivity
- Methods- MySQL, oracle, how to install MySQL, DB connection
- Create, Insert, Update and Delete operations Handling errors

Framework

- Introduction to Django framework, overview, environment
- Apps lifecycle, creating views
- Application, Rest API

DevOps

Introduction to DevOps

- What is DevOps?
- DevOps Lifecycle, Continuous Development, Introduction to GIT

GIT

- Branching/Merging in GIT, Ansible Tutorial
- Kubernetes Tutorial

CICD Pipeline

- Introduction to Jenkins, Install and configure Jenkins, CICD Pipeline Introduction.



MySQL

Introduction to Database

- What is Database?
- Database testing
- Types of Database
- What is MySQL?
- DDL – Data Definition Language
- DML – Data Manipulation Language
- DCL – Data Control Language
- DQL – Data Query Language

Overview of Database

- MySQL Commands
- What is RDBMS?
- What is table?
- What is field?
- What is column?
- What is NULL value?

MySQL Constraints

- NOT NULL Constraint: Ensures that a column cannot have NULL value
- DEFAULT Constraint: Provides a default value for a column when none is specified
- UNIQUE Constraint: Ensures that all values in a column are different
- PRIMARY Key: Uniquely identifies each row/record in a database table
- FOREIGN Key: Uniquely identifies rows/records in any another database table
- CHECK Constraint: The CHECK constraint ensures that all values in a column satisfy certain conditions
- INDEX: Used to create and retrieve
- Aggregation Functions: (Mean, Max, Count), Group by, Sorting order

MySQL Statements and Joins

- MySQL Syntax
- MySQL SELECT Statement
- MySQL Joins

Understanding of Data Contract & Mapping Specifications

- Understanding of data contract
- Understanding of mapping specifications
- Creating test cases from requirement

Training Methodology

02

Technical Presentations by Learners

Weekly technical presentation sessions by the learners, assessed and moderated by trainers

04

Bootcamps & Case Study Analysis

Learners will work on bootcamps with real-life interview questions and case studies along with faculty

06

Placement Preparation

Dedicated placement team will guide participants in preparing resume and LinkedIn profile, and also hold graded mock interviews

01

Day-wise Agenda and Activities

Consisting of topics as per day-wise calendar, lab sessions for important topics, day-wise interview questions, and interview preparation practice tests in LMS

03

Topic-wise Interview Questions

Multiple practice tests with questions from real-life interviews

05

Graded Quizzes

Graded quizzes after completion of day-wise agenda and assignments

07

Job Interview Guarantee (JIG)*

Participants are eligible for JIG* after being evaluated on technical presentations and clearing the graded quizzes.

GUARANTEED JOB INTERVIEWS

Our dedicated placement teams have over a decade of experience in transitioning students from the classroom to the workplace.

Here's how it goes:



Interview Preparatory Sessions

Your interview preparation begins on the first day of your course. Faculty moderate daily interview quizzes and discussions, and there are topic-specific preparation sessions. Participants also give technical presentations and take part in numerous bootcamps where experts tackle real-life interview case studies.



Resume Preparation Session

Our mentors will guide you through preparing a personalized resume that connects your talents, skills, and previous experience.



LinkedIn Profile Optimization

Your LinkedIn profile is key to getting the attention of recruiters. We help you put your best foot forward by working with you to optimize your profile.



Assessments and Mock Interviews

Regular assessments will be conducted and the results will be shared with participants. A team of industry experts will perform a SWOT analysis and provide feedback on your interview performance, highlighting areas for improvement. Clearing these assessments and mock interviews is crucial for advancing to the placement pool.



Placement Pool

After you clear the assessments and mock interviews, you'll get into the placement pool. This is the phase where we'll schedule guaranteed job interviews until you get placed.

Why ExcelR?



Guaranteed Job Interviews

Our training doesn't stop with theory and practice. We also take responsibility for making you job-ready. Upon successful completion of training, internship, and assessments, you will enter the placement pool. Once in it, we'll schedule interviews for you until you get the first job offer.



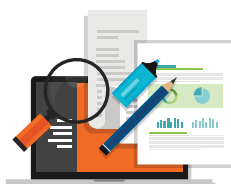
Jumbo Pass

Our Jumbo Pass is a first-of-its-kind offering that allows you to attend one classroom batch and unlimited live virtual classes for the next 365 days with any trainer of your choice.



Top-Notch Faculty

Our faculty is our strength. We have certified software testing trainers, with over 12 years of experience, who have a strong passion for training. The trainers are always at your disposal to assist you throughout the learning process.



Industry-Based Course Curriculum

Considering the unmet skill gaps in industry, our course modules are aligned to the latest technological trends, and cover all the essential topics and tools.



Dedicated Post-Training Support

Learners gain hands-on experience when they start on their assignments and case studies. We provide dedicated mentors to help with any queries during this phase.



Lifetime Access to Self-Paced Learning

We provide lifetime access to the Learning Management System, so you can revise concepts by going through the recorded sessions as and when you want.



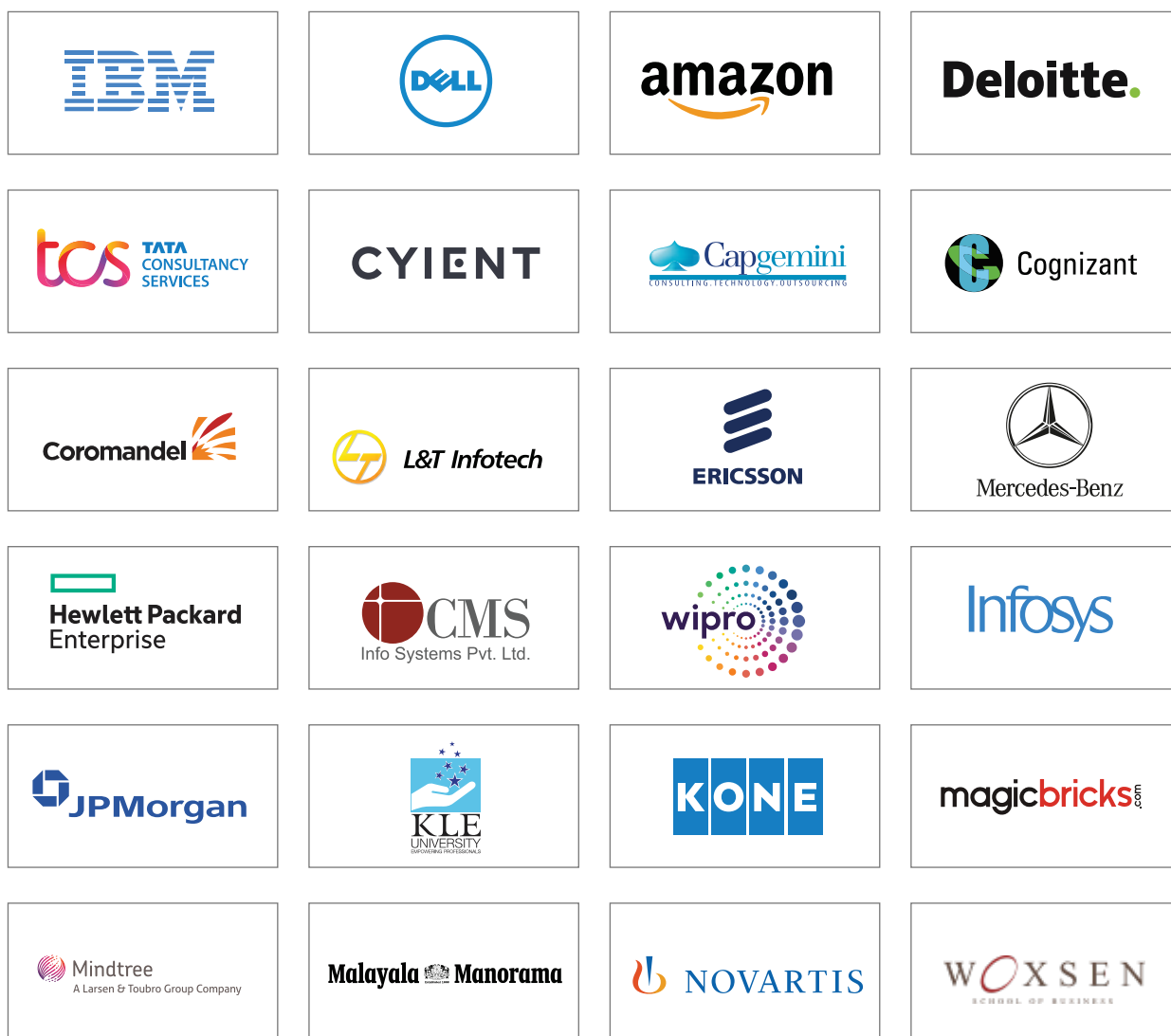
4.8/5 Star Reviews on Google

We have had many happy learners over the years, and our ratings reflect our ethos of striving always to provide a high-quality learning experience.

Academic Partners



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...the name you don't BANK upon!

YES BANK

IndusInd Bank

IDBI BANK

Kotak
Kotak Mahindra Bank

बैंक ऑफ़ बड़ौदा
Bank of Baroda

RBL BANK

Corporation Bank

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We build CAREERS



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