



Software

Testing

“Become a Software Tester”

In Just 100 Hours

(App. 3-4 months)

Blended Approach

Instructor Led-Hands on - 80 Hours

Real Time Project - 20 Hours

Transform your future with our education



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SKILL9 Academy
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Why take this course?

- Designed for Graduates/Under Graduates or job seekers and professionals who wants to enhance their technical knowledge
- Studying/Studied GRADUATION
- Any Graduate/engineer who is interested in Coding Freshers/Graduates
- Non-programming engineers

In addition Course helps you

- Improve your logical thinking: Improve your problem-solving abilities
- Improve your searching skills: Understand how software applications work
- Find a nice and well-paid job; Improve your self-confidence
- 100% JOB ASSISTANCE after completion of course to make your Profile reach to Hundreds of Recruiters in our network and with the company we have tie up

Features

- Real-Time Projects
- Hand's On Experience
- Mock Tests and Mock Interviews
- Daily Assignments and Seminars



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Manual Testing - 1

20 Hours



Software Development Life Cycle (8 hrs)

- Waterfall Model
- Spiral Model
- Prototype Model
- V & V Model
- Hybrid Model

Black Box Testing(10 hrs)

- Functionality 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

White Box Testing(2 hrs)

- Path Testing
- Loop Testing
- Condition Testing
- White box Testing from Memory Point of View
- White box Testing from Performance Point of View
- Unit Testing
- Smoke Testing/Sanity Testing/Dry RunAdhoc 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



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Manual Testing - 2

16 Hours



TEST CASE (4 hrs)

- 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

Software Test Life Cycle (4 hrs)

- Traceability Matrix
- Test Execution Reports

Defect Tracking (4 hrs)

- 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
 - QC

Test Plan (2 hrs)

- Sections of Test Plan
- Test Metrics

Agile Methodology (2 hrs)

- Agile Scrum
- Agile Kanban
- Agile Xtreme Programming



Subject Evaluation



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Database -1

8 Hours



Introduction (1 hr)

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

Datatypes and Constraints (1 hr)

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

Statements in SQL (1 hr)

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

Software installation (1 hr)

- Installing and set up of software
- Working on Oracle 10g.

Operators (1 hr)

- Types and Examples

Data Query Language (DQL) (2 hrs)

- Select
- From
- Having
- Where
- Group By
- Order By

Functions in SQL (1 hr)

- Introduction on Pseudo Columns
- ROWID ◦ Sum ()
- ROWNUM ◦ Avg ()
- Working and Usage



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Sub Query (1 hr)

- 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 (1 hr)

- Single Row Functions
- Multi Row Functions
 - Max ()
 - Min ()
 - Count ()

JOINS (3 hrs)

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

Co- Related Sub Query (1 hr)

- Working and Examples

Data Definition Language (DDL) (2 hrs)

- Create
- Rename
- Alter
- Truncate
- Drop



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Database - 3

4 Hours



Transaction Control Language (TCL) (1 hr)

- Commit
- Save point
- Rollback

Data Control Language (DCL) (1 hr)

- Grant
- Revoke

Normalization (1 hr)

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

E R Diagrams (1 hr)

- Introduction to ERD
- Examples.

Subject Evaluation

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SKILLS FOR LIFE



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Section 1 (3 hrs)

- **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

Section 2 (6 hrs)

- **Object Oriented Programming System**
- 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 Specifiers

Section 3 (3 hrs)

- 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
- Encapsulation

Subject Evaluation



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Automation Testing - 1

6 Hours



Automation Testing (1 hr)

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

Xpath, its Types and cases (2 hrs)

- Handling Multiple Elements
- Handling Synchronisation issue by using implicitlyWait and Explicitly Wait
- Handling Dropdown (static and dynamic)
- Handling Keyboard and Mouse Actions
- Handling Disabled Element
- Performing Scroll down Action
- WebElement Interface Methods
- Handling Popups, Frames
- Handling New Windows/New Tabs

Selenium (2 hrs)

- What is Selenium
- Why Selenium? / Advantages
- What are its versions?
- What all OS, Browsers, and Programming Languages it Support?
- Java-Selenium Architecture
- WebDriver Architecture
- Basic Selenium Program to Open and close Browser
- Runtime Polymorphism Program in Selenium
- WebDriver abstract methods
- Locators

AUTOMATION FRAMEWORK (1 hr)

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



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Automation Testing - 2

6 Hours



TestNG (4 hrs)

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

Modular Frameworks (2 hrs)

Hybrid Framework

- Hybrid Framework Architecture
- Introduction to Maven, GitHub and Jenkins

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