

Session 1.5

Training walkthrough

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What do we cover in 200 hours?

AN INITIATIVE BY



Introduction



What will be covered in this session?

- Use cases and traceability
- Test data and scenarios

Part 4: Hands-on Sessions (100 h)

- Day to day work
- Defect prevention, RCA and
- A Business Organization and various functions
 Part 3: Automated Testing (50, h)
 Programs and Projects from business / users' perspective value add aspects
- SDLC V Process model 2 hours Overview
- Importance of Testing, Quality, and the critical role of a Tester

Types of Testing — a quick overview

Part 2: Concepts of Testing (30 h) • Automation and Runs

- Types of Testing
- **Common Testing Tools**
- Manual Testing Test cases, Data, Scenarios etc.
- Case-studies and Scenarios

Part 1: The Basics (20 hours)

- Organization& its working
- **SDLC & STLC Overview**
- Basics of OOPS, Database Java essentials for Testing
- Overview on few Testing roles Job Descriptions

Let's go!!!

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Learning Objective Recap

At the end of this training, participants will be able to get an idea on-

- Selenium Test Environment set-up that covers installation of Java, IDE and Selenium executables including Test frameworks' executables
- 2. Various Types of Testing and when do we use Automated testing?
- 3. Basics of SDLC types of projects, technologies, and various architectures
- 4. Essential concepts of Java and Object-oriented programming for Test automation
- 5. Accessing different web elements of a web page using Java in Selenium
- 6. Overview of Testing frameworks with specific focus on TestNG
- 7. Data-driven Testing using Microsoft Excel and Apache POI
- 8. Basics of Test Reporting and reports through Extent Reports
- 9. The Integrated Approach in 'big testing' projects Marven, Jenkins, Git, and Apache POI

Training Module wise Details

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BASICS

- What is an
 Organization and
 how an IT Project
 starts and gets
 executed in an
 Organization?
- What are the various types of Projects, Technologies, and Architectures?
- SDLC and STLC Life Cycles
- Environment Setup and prerequisites (setup as well as the knowledge) to be a successful Tester – particularly in automation

TESTING CONCEPTS

- Projects and Project phases
- documents in typical 'SDLC' project
- Walkthrough of the applications that we use for testing during this training
- Test cases and Test data preparation (Manual Testing)
- Standard checklists and templates for Testing
- Hands-on Exercises

JAVA & OOPs

- Basics language, compile, link, and build
- Variables and data types
- Concepts of Object oriented
- Operators & Control flow
- Exceptions and Debugging
- Basic SQL and RDBS
- JDBC, API and External Data concepts
- Projects packages and build
- Hands-on Exercises

SELENIUM

- Selenium WebDriver
- DOM & Locator Techniques
- Tools to identify Objects
- Xpath and CSS Selectors
- Basics of Events and Alerts
- Data-driven Testing
- Testing
 Frameworks –
 TestING focused
- Extent Reports capturing, formatting, and logging.

OTHER TOOL

- Git Version
 Controlling and
 Importance
- Marven Projects

 and Dependencies

 Management
- Workflow
 Automation using
 Jenkins
- Behavior driven
 Development

Module 1 - Basics



- What is an
 Organization and
 how an IT Project
 starts and gets
 executed in an
 Organization?
- What are the various types of Projects, Technologies, and Architectures?
- SDLC and STLC Life Cycles
- Environment Setup and prerequisites (setup as well as the knowledge) to be a successful Tester – particularly in automation

- There are no pre-requisites to attend this segment
- This section mainly focuses to get an overview of practical aspects of Project execution such as business requirement, budget allocation, project teams and structure, how the technology and approach get finalized?
- After getting an overview on Projects, we will try to understand
 Development Life Cycle and Test Life Cycle in IT.

 By the time, this session ends – you will have fairly good idea on projects within an organization. Also, you will be ready to setup Selenium based test environment for browser based testing projects.

Module 2 – Testing Concepts



- Projects and Project phases
- Critical project documents in typical 'SDLC' project
- Walkthrough of the applications that we use for testing during this training
- Test cases and Test data preparation (Manual Testing)
- Standard checklists and templates for Testing
- Hands-on Exercises

- V-Process based Project execution starting from requirements to final deployment will be the initial session.
- After that, we briefly go over critical SDLC documents that matter for 'quality' such as SRS, SDD, UTC, UTR, ATP, ATR, and various checklists and templates
- You will get a hands-on experience with Test cases and Test data preparation for two web-based projects
- By the time this session ends, you will be getting pragmatic insight into Tester's life. The hands-on exercises and quizzes enable you to get the best possible learning experience. So- don't miss these!

Module 3 – Java and Object Oriented



- Basics language, compile, link, and build
- Variables and data types
- Concepts of Object oriented
- Operators & Control flow
- Exceptions and Debugging
- Basic SQL and RDBS
- JDBC, API and External Data concepts
- Projects packages and build
- Hands-on Exercises

- This section starts with basic fundamentals of a language
 keywords, syntax and semantic rules of a language.
- Overview of Java and key segments of Java language –
 variables, loops, collections, controls etc. will be covered
 briefly. This section is meant only to refresh your Java
 skills rather teaching from scratch. So, additional
 learning is essential to get the best out of theses
 sessions.
- By the time this session ends, you will be learning the basic required Java concepts to write Automation test scripts by using Java and Selenium.

Module 4 – Selenium



- Selenium WebDriver
- DOM & Locator Techniques
- Tools to identify Objects
- Xpath and CSS
 Selectors
- Basics of Events and Alerts
- Data-driven Testing
- TestingFrameworks –TestING focused
- Extent Reports capturing, formatting, and logging.

- This is the core section of the training that is allocated almost 50% of the time.
- It is essential to complete the class works, home works, and additional learning on daily basis – without any delays. Not missing / skipping any session is also a critical factor.
- By the time, this session ends you will have good knowledge on Selenium WebDriver, Web Elements, Testing Frameworks and Test Reports' Generation.

Module 5 – Important Tools



- Git Version
 Controlling and

 Importance
- Marven Projects

 and Dependencies

 Management
- Workflow
 Automation using
 Jenkins
- Behavior driven
 Development

- This section focuses on the essential aspects of 'practical projects' – the tools that are out side of normal 'Selenium Framework', but fall under essential tools for a successful project execution are covered in this section.
- This section will not go in 'deep'. The topics covered in this section will give an overview of the integrated approach. You can plan additional learning based on your specific project requirements with your instructors' help.

Session Recap



