



QA Automation

64

Academic Hours

QA Automation

Overview

This course is planned to QA manual personnel in their transition to Automation QA.
The course contains three main subjects – JAVA, Selenium and Katalon.



Content

Module 01 Introduction to JAVA (1 hour)

- | Java History
- | Language Features

Module 02 The JAVA Environment (1 hour)

- | Java Virtual Machine
- | First Java Program
- | Java compiler
- | Garbage collection
- | Installation and distribution

Module 03 JAVA Syntax (6 hours)

- | Comments
- | Variables
- | Primitive types
- | Operations
- | Flow control
- | Strings
- | Arrays

Module 04 Java Class Definition (6 hours)

- | Methods
- | Constructors
- | Encapsulation
- | static and final variables
- | Javadoc
- | Objects references
- | The this keyword

Module 05 Strings and Matrixes (4 hours)

- | String, StringBuffer, StringBuiler
- | Define a matrix
- | Working with matrix and graphs

Module 06 Packages, JAR files, Class Path (2 hours)

- | Packages
- | The import statement
- | Class loading and CLASSPATH
- | Package-friendly access
- | JAR files

Module 07

Inheritance & Polymorphism (4 hours)

- | Inheritance in Java
- | The super keyword
- | Single inheritance
- | protected access
- | Implementing polymorphism

Module 08

Abstract Classes & Interfaces (4 hours)

- | Abstract classes
- | Interfaces
- | Simulating multiple inheritance

Module 09

Multi Threading (2 hours)

- | Java Thread API
- | The Runnable interface
- | Threads lifecycle
- | Synchronization
- | Wait/notify

Module 10

Selenium Overview (1 hour)

- | Introduction
- | Advantages
- | Disadvantages

Module 11

Selenium IDE (3 hours)

- | Download Selenium IDE
- | Features
- | Understanding HTML
- | Pattern Matching
- | Different Browsers

Module 12

Selenium Web Driver (4 hours)

- | Architecture
- | Scripting Using Web Driver
- | Most Used Commands

Module 13

Web Driver and Java (4 hours)

- | Adding functions and classes to Web Driver

Module 14

Katalon (8 hours)

- | Introduction
- | Basics
- | Writing Test Cases
- | Web and Mobile Automation
- | Tips & Tricks
- | Integration

Module 15

Katalon Advanced (4 hours)

- | Best Practices
- | Katalon Analytics

Module 16

Groovy (4 hours)

- | Basic Syntax
- | Groovy compared to JAVA

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