

Software Development Engineer in Test (SDET) Plus

Diploma in Software Testing

Product Code: ST-ST-50027

Duration: 700 hrs.

Eligibility

- BE / B Tech / MCS /MCA / BCS / BSc / BCA or equivalent (Candidates appeared for final year can also apply)

Take Aways

- Learn how to build logic and write basic programs in C language which helps in building the logic for testing the applications.
- Access and manipulate data in Oracle database using Structured Query Language (SQL). Learning database testing concepts will become easy by learning SQL concepts and implementation.
- Develop dynamic and interactive web-pages using HTML5 & CSS3. This is base for Web application testing, UI Testing, Usability Testing.
- Develop interactivity with jQuery.
- Develop responsive, mobile first projects on the web using Bootstrap. This is prerequisite for testing the responsive web applications.
- Perform effective testing of Software applications and covers multiple domains.
- Create GUI application using Java and testing the same.
- Create data centric applications using Java and testing the same.
- Read SRS and understand application functionalities which is key for effective testing.
- Execution of test cases & Defect reporting in traditional and agile framework.
- Identify test scenarios & develop Test cases on various domains and applications based on different technologies.
- Create various artifacts as part of SDLC and use them to build and test quality software.
- Hands-on practice of all learnt testing and development concepts which helps in becoming Software Development Engineer in Test (SDET)
- Use various Testing tools like Selenium WebDriver, TestLink, Bugzilla etc.
- Get good score in selection tests for C programming, SQL.
- Get good score in quantitative aptitude and communication skills tests.
- Stand out in the interview by effectively demonstrating your abilities and technical knowledge.

Course Contents

C Programming

- Programming Techniques
- C Language Basics
- Selection Control Statements
- Iterative Statements
- Functions
- Storage Classes
- Pre-processor
- 1D,2D Arrays
- Sorting Techniques
- String Handling
- Dynamic Memory Allocation
- Structures and Union
- Files
- Linked List

Oracle – SQL

- Activities
- Introduction
- Retrieving data using SQL statement
- Built – in functions
- Summarizing results using group functions
- Joins
- Sub-queries
- SET operators
- Manipulating data and transaction
- Creating and Managing tables
- Introduction to other schema objects

Responsive Web Designing (RWD)

- Hyper Text Mark-up Language (HTML)
- HTML5
- Cascading Style Sheets (CSS)
- CSS3
- JavaScript
- Bootstrap

Object oriented Programming using Java

- Object-oriented
- Concepts
- Introduction to Java
- Writing Java classes
- Language fundamentals
- Inheritance &
- Polymorphism
- Java API Support
- Exception Handling
- Collection Framework and Generics
- Annotations

S/w Testing (Manual Testing)

- Introduction to software applications
- Introduction to Software development process
- Need of testing
- Software Testing methods and levels
- Test Planning
- Test design process
- Test Design techniques
- Test Execution
- Defect Management
- Non- functional testing
- Specialized testing
- Quality
- Skills needed for software tester

Test Link

- Introduction to TestLink
- TestLink workflows
- Hands on

Bugzilla

- Introduction to Bugzilla
- BugZilla workflows
- Hands on

Manual testing Case Study

- Requirements / User Story Study Hands on
- Test planning Hands on
- Test design Hands on
- Test execution Hands on
- Test closure Hands on

Test automation using Selenium WebDriver

- Introduction to test automation
- Selenium Basics
- Basic Record and playback
- WebDriver Introduction
- WebDriver Methods
- WebDriver Locators
- Firebug and Firepath
- Synchronization
- Advanced usage
- Launching multiple browsers
- TestNG framework

Tricentis TOSCA AS 1 Certification Preparation

- TOSCA

ISTQB Preparation

- Fundamentals of Software Testing
- Testing throughout the Life Cycle
- Static testing Techniques
- Test Design Techniques
- Test Management
- Tool Support for Testing
- Exam preparation

Real Time Project using Agile Methodology

Objectives : You will learn to

- List SDLC phases.
- Test the applications / projects using learnt techniques, technologies and tools Configuration and Tools

Requirements

- CAST Tools
- MS Office 2007 or above

Course Contents

- Software Development Life Cycle (SDLC)
Need for Software Engineering, SDLC Phases, Salient Features of SDLC
- Project Implementation
Implementation of given Project using traditional development lifecycle and Agile methodologies

Induction / Expectations Setting / Evaluations / Mentoring / CPC Interaction / Feedbacks / Other Misc. Sessions –

- Will be scheduled in extra hours

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