STC TECHNOLOGIES

CERTIFIED SOFTWARE TESTING EXPERT

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softwaretechnologyconsultants.com

ABOUT STC

STC (Software Technology Consultants) focuses on delivering industry relevant training that translates directly into real world capability. Through hands on learning, modern tools, and structured workflows, students are equipped to transition confidently from learning to execution.

Every program is aligned with current industry standards, ensuring practical expertise and strong professional readiness.



100% PLACEMENT ASSISTANCE DRIVEN PROGRAM

A dedicated placement system designed to move you into the industry. From portfolio and profile building to interview readiness and opportunity access, every step is focused on helping you secure the right role

WHY THIS COURSE?

The AI Driven Software Testing and DevOps Program by STC (Software Technology Consultants) is designed to deliver real world, job ready skills, not just theory.

It brings together Software Testing, Automation, DevOps, and AI into one structured learning journey aligned with current industry demands.

At STC, learning is practical and career focused, with real tools, workflows, and project scenarios that build true application and confidence. By the end, you don't just complete a course, you're ready to perform in a professional environment.



FUNDAMENTALS OF SOFTWARE TESTING

QUALITY SQF PRINCIPLE SOFTESTING
DIFFERENCE BETWEEN DEBUGGING
AND TESTINGQUALITY ASSURANCE
QUALITYCONTROL



SOFTWARE DEVELOPMENT LIFE CYCLE(SDLC)

- SDLCPHASES
- SDLCMODELS
- WATERFALL MODEL
- SPIRALMODE
- ITERATIVEMODEL
- VMODEL
- INCREMENTALMODEL
- AGILEMODEL

AGILE MODE

- SCRUM
- KEYELEMENTS
- CRUMACTIVITIESARTIFACTS
- ADVANTAGES AND DISADVANTAGES OF AGILEMOD

STATIC TESTING

- STATIC TESTING
- TYPES OF STATIC TESTING
- ROLES OF REVIEW
- REVIEW PROCESS
- DIFFERENCE BETWEEN STATIC & DYNAMIC TESTING
- OVER VIEW OF STATIC ANALYSIS TOOLS

TEST TECHNIQUES

- BLACK BOX TESTING TECHNIQUE
- WHITE BOX TESTING TECHNIQUE
- EXPERIENCE BASED TESTING TECHNIQUE

SOFTWARE TESTING LIFE CYCLE (STLC)

- STLC PHASES
- TEST PLANNING
- TEST CONDITION
- TEST CASE
- TEST CASE PREPARATION
- TEST SUITE
- TEST SCRIPT
- TEST EXECUTION ACTIVITIES
- SEVERITY
- PRIORITY
- DEFECT LIFE CYCLE
- TESTING LEVELS

TEST MANAGEMENT

- REQUIREMENT MANAGEMENT
- CHANGE MANAGEMENT
- CONFIGURATION MANAGEMENT
- RISK MANAGEMENT
- PDCA CYCLE

SOFTWAR TEST TYPES

SMOKE TEST
SANITY TEST
DIFFERENCE BETWEEN SANITY TEST AND SMOKE TEST
ADHOC TESTING
MONKEY TESTING
USABILITY TESTING
REGRESSION TESTING
NEED OF REGRESSION TESTING
DIFFERENCE BETWEEN REGRESSION & RE TESTING
NEGATIVE TESTING
POSITIVE TESTING
PERFORMANCE TESTING
CONCURRENCY TESTING
FUNCTIONAL TESTING
NON-FUNCTIONAL TESTING
MUTATION TESTING
PATH TESTING

- CONFIRMATION TESTING
- MAINTENANCE TESTING
- RECOVERY TESTING
- GLOBALIZATION TESTING
- A/B TESTING
- CONFIGURATION TESTING
- COMPATIBILITY TESTING

WEB TESTING

- AGENDA OF WEB TESTING
- FUNCTIONALITY TESTING
- USABILITY TESTING
- CLIENT SIDE COMPATIBILITY
- SERVER SIDE INTERFACE
- PERFORMANCE
- SECURITY TESTING



MOBILE TESTING

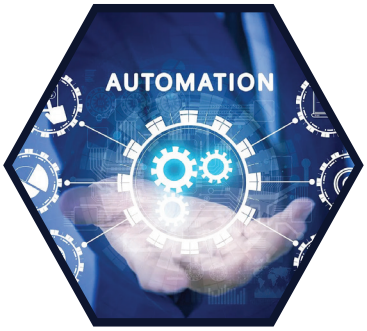
- DEFINITION OF MOBILE TESTING
- TYPES OF MOBILE TESTING
- DIFFERENCE BETWEEN MOBILE & MOBILE APPLICATION TESTING
- TYPES OF MOBILE APPLICATIONS
- TYPES OF MOBILE DEVICE TESTING
- TYPES OF MOBILE APPLICATION TESTING
- KEY CHALLENGES
- MOBILE APP TESTING TOOLS

MANUAL PROJECT

- CURRICULAM PROJECT
- LIVE PROJECT

INTRODUCTION OF AUTOMATION TOOLS

- DIFFERENCE BETWEEN MANUAL & AUTOMATION TESTING
- TEST AUTOMATION
- AUTOMATED TESTING
- TESTCASE TO AUTOMATE
- AUTOMATION PROCESS
- TEST MANAGEMENT TOOLS
- FUNCTIONAL TESTING TOOLS
- PERFORMANCE TESTING TOOLS
- DEFECT TRACKING TOOLS



CORE JAVA

- INTRODUCTION TO JAVA
- FEATURES OF JAVA
- NAMING CONVENTIONS IN JAVA
- VARIABLES AND TYPES OF VARIABLES
- DATA TYPES
- ARRAY OBJECT AND CLASS IN JAVA
- JAVA PACKAGE
- JAVA COMMENTS
- SINGLE PROGRAM OF JAVA
- LOOPING & CONTROL STATEMENTS
- JAVA OOPS CONCEPT



- FINAL KEYWORD IN JAVA
- STATIC KEYWORD IN JAVA
- ACCESS MODIFIERS IN JAVA
- EXCEPTION HANDLING

SELENIUM

- SELENIUM IDE
- SELENIUM INTRODUCTION
- IDE FEATURE
- CREATING SCRIPT USING IDE
- RECORDING
- SELENIUM RC
- SELENIUM WEBDRIVER
- CORE JAVA
- BROWSER LAUNCH
- FINDELEMENT & FINDELEMENTS
- DROP DOWN HANDLING
- SCREENSHOT
- WEB BASED POPUP
- FRAME HANDLING
- WINDOW BASED POPUP
- MOUSE HOVER



- WINDOW HANDLING
- JUnit
- DIFFERENCE BETWEEN JUnit & TestNG
- TestNG FRAMEWORK
- TestNG PARAMETERISATION
- DATA PARAMETERISATION
- TESTING MAVEN (PAGE OBJECT MODEL)
- EXTENT REPORTS
- PROJECT WORKS

JIRA

- WHAT IS JIRA
- IMPORTANCE OF JIRA
- METHODOLOGY USED IN JIRA
- JIRA TERMINOLOGY
- WORK FLOW IN JIRA
- BUG REPORTING
- PROJECT WORKS

JMETER

- COMPONENTS OF JMETER
- TIMERS
- ASSERTIONS
- PARAMETERISATION
- CONTROLLERS
- RECORDING
- PROJECT WORKS

POSTMAN

- API
- HTTP METHODS
- VALIDATION
- VARIABLES
- PARAMETERISATION
- NODEJS
- NEWMAN REPORT
- PROJECT WORKS

KEY TOOLS THAT YOU WILL LEARN













VEGA

git

GitHub

ChatGPT

perplexity

testRigor

applitools

Playwright

CERTIFICATION

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UBICSOFT IT SOLUTIONS

nactet

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THANK YOU