Manual Testing With Live Project Training

This course offers an enriching Manual Testing With Live Project through collaboration with the Indian Institutes of Technology (IIT), tailored to equip students with comprehensive manual testing skills in real-world scenarios. This program provides hands-on experience with live projects, enabling participants to understand the intricacies of manual testing methodologies thoroughly. Covering fundamental concepts such as test planning, and defect tracking, the course ensures a robust understanding of the manual testing process.

Course Duration : 45 Days

Course Language : English/Hindi/Telugu

Classroom : Offline/Online Training/Hybrid Training

Description

The Manual Testing course provides a comprehensive foundation in software testing principles, methodologies, and techniques, focusing on manual testing processes and practices. Aimed at individuals looking to kickstart their careers in quality assurance or enhance their testing skills, this course equips students with the essential knowledge and practical skills needed to effectively identify, assess, and report software defects.

Throughout the course, students will learn the fundamentals of manual testing, including test planning, test case design, test execution, and defect tracking. They will gain hands-on experience in various testing techniques, such as functional testing, regression testing, usability testing, and exploratory testing, enabling them to thoroughly evaluate software applications for correctness, functionality, and user experience.

Additionally, the Manual Testing course covers important topics such as test documentation, test management tools, and quality assurance processes, providing students with a holistic understanding of the testing lifecycle. By the end of the course, students will have the confidence and proficiency to perform manual testing effectively across a wide range of software projects, ensuring the delivery of high-quality, reliable, and user-friendly software products. Throughout the course, students will learn the fundamentals of manual testing including test planning, test case design, test execution, and [defect] Bug tracking.

Skills you get

- Test Planning and Documentation
- Requirement Analysis and Test Case Design
- Requirement Analysis and Test Case Design
- Exploratory Testing Techniques
- User Interface and Usability Testing
- Cross-browser and Cross-platform Testing

Course Contents

Software Testing Fundamentals
- Introduction to Software Testing
- Software Development Process
- SDLC Real Time process Steps
- What is Software & Software Testing?
- Define QA Process
- History of Software testing
- Objective of Testing
- Why Testing required?
- When to start Testing
- Testing importance
- Definition, Basics & Types
- Software Testing as a Career Path (Skills, Salary, Growth)
- Why software has Defects

- Services based vs Product based Companies

Testing Roles and Responsibilities
- Software Test Engineer
- Real Time Job Role of Tester
- Senior Software Test Engineer
- Test Lead

- Test Manager

Software Testing Methods
- White Box Testing
- Black Box Testing
- Gray Box Testing

- Difference of Whitebox & Blackbox Testing

Software Development Life Cycle - SDLC

- What is SDLC?

- SDLC Phases

- SDLC Models

- Waterfall model

- V model

- Verification & Validation

- Agile Model

Agile Process Concepts

- What is agile?

- Why Agile is important

- Agile Testing principles

- What is mean by scrum master

- Roles of Scrum Master

- Sprint Planning

- Sprint Release

- Product Backlog

- What is Epic

- Concept of User Stories

- Defect Backlog

- Standup meeting

- Status meeting

- Scrum meeting

Software Testing Life Cycle - STLC

Understanding the requirements

- Requirements Specification

- Business requirement specification

- Software requirement specification

- Functional requirement specification

Test Plan Preparation

- Overview of Test Plan

- Entry and Exit criteria

- Test Plan template

Test Engineer Responsibilities

- LAB Checklist

Creation and working with Folder Structure

Test Scenarios

- Test Scenario Entry and Exit Criteria

- Test Scenario Template

- Test Scenarios Identification

- Writing Test Scenarios for application

Test Cases

- Test cases Entry and Exit Criteria

- Test cases Template

- Test cases Identification

- Test Design Guidelines

- Writing Test cases for application

- Good Test Case design steps

- Test Data Preparation

Test Case Design Techniques

- Equivalence Class Partitioning

- Boundary Value Analysis

- State Transition

- Decision Table

- White box Testing Techniques

Software Testing Types

- Smoke Testing

- Sanity Testing

- Re-Testing

- Regression Testing

- Static Testing

- Dynamic Testing

- Ad-hoc Testing

- Functionality Testing

- Usability Testing

- Compatibility Testing

- Data Base Testing

- Interface Testing

- Performance Testing

- Security Testing

User Acceptance Testing

- Alpha Testing

- Beta Testing

- UAT Testing

Test Execution

- When to start Test Execution

- Process to start test execution

- What is build

- Build Release process

- Executing Test Cases on multiple builds

- Test Cases Execution Status

Bug/Defect management

- Defect/Bug Life Cycle

- Defects Reporting

- Defects Reporting Template

- Defects Reporting & Re-Testing

- Defects Closing

- Severity and Priority

- Defect /Bug/Error/Failure

- Defects in Real Time application

- How to find more bugs

Test/Project management Tool: JIRA

- Introduction to Jira

- Features of Jira

- Test Case Design in Jira

- Creating Test Cycle

- Test Execution in Jira

- Bug Reporting using Jira

- Jira Dashboard

Status Reports Process

- Daily Status Report

- Daily Defect Report

- Weekly Status Report

- Monthly Status Report

Test Closure

- Criteria for Test Closure

- Test Closure process

- Test Summary Reports

- When testing need to be stopped