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Classroom

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Software Testing Diploma Syllabus

-This course includes Manual Testing aspects plus basic automation testing tools. The content included in the syllabus is sufficient for clearing the ISTQB certification.

Note: We have combo course and individual courses for Automation testing tools along with manual testing. Please contact us for detailed syllabus of Selenium and QTP.

Fundamental of Testing

- What is software testing?
- Why is testing necessary?
- Testing principles

Software Development Life Cycle

- Waterfall
- Spiral model
- Incremental Model
- Agile Model
- V shaped Model
- CMMI Model

Software Testing Life Cycle

- Requirements Analysis
- Test Planning
- Test Analysis

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- Test Design
- Construction and verification
- Testing Cycles
- Final Testing and Implementation
- Post Implementation

Verification

- Inspections
- Walk through
- Peer reviews

Validation

- Unit Testing
- Integration Testing
- Functional Testing
- System Testing
- Acceptance Testing
- Alpha Testing and Beta Testing

Non-Functional testing

- Usability Testing
- Security Testing
- Configuration testing
- Compatibility Testing

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- Recovery Testing
- Availability Testing
- Volume Testing
- Internationalization Testing
- Localization Testing

Performance Testing

- Performance Testing Concepts
- Pre-requisites of Performance Testing
- Performance Test Types
- Load Testing and Stress Testing
- Common Performance problems
- Performance Testing process

Other Types of testing

- Mutation Testing
- Progressive Testing
- ReTesting
- Sanity and Smoke testing

Black box

- Boundary value analysis
- Error guessing

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- Adhoc testing
- Risk Based testing
- Exploratory testing
- White box
- Data coverage
- Code coverage

Test management

- ALM (Properties software)
- Test link (Open Source software)
- Test Organization
- Test Strategy
- Test Plan
- Estimates
- Test progress monitoring and control

Test cases

- Objectives
- Structure of test case
- Sample test Case
- Risk analysis
- Contingency and mitigation

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Defect Management

- JIRA (cloud base system)

Defect life cycle

- Meaning of different defect lifecycle status
- Format of defect report
- Severity and Priority

Testing Matrices

- RTM (Requirements Traceability Matrix)

Mobile Testing

- Overview of Mobile Devices
- Different types of Mobile Applications
- Mobile Applications Test Types
- Mobile Testing Types
- Testing for the devices
- Testing for the connectivity
- Testing applications on different platforms
- Mobile specific testing
- Testing different types of mobile applications
- Common test types applied to mobile testing
- Field testing

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Web Application Testing

- Threats & Risks
- Testing Range
- Testing Strategies
- Test Planning
- Test Cases, Scripts, Suites & Scenarios
- Selecting Test Loads
- Load and Stress testing

Overview of Automation Testing

- Potential benefits and risks
- Introduction of a tool in an organization
- Tools used for Automation Testing

Overview of Unified Functional Testing (UFT) previously QTP

- Introduction
- Quick Test Window
- Views in QTP
- Capture and playback principle
- Recording modes
- Object Repository
- Standard Check points

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Application Lifecycle Management (ALM) previously QC

- Opening QC
- Requirements tab
- Test Plan and Lab tab
- Test lab tab
- Defects tab
- Report and analysis of results

Over view of selenium

- Introduction
- Selenium IDE
- Difference between Selenium and UFT and what to choose for career
- Automate test cases using selenium

Manual Testing project:

Trainer will give assignments to each students by doing this student will learn following

- Write test cases
- Execute test cases
- Analyze result
- Submit report

You will learn following open source tool

- Test link
- Jira