Manual Testing

This course is designed assuming that the participants have no prior IT background and covers all the necessary concepts of Software Testing, Day to Day work of a Software Test Engg in the project environment. Apart from intro to Software Testing on Different technologies like Cloud, WebServices, and Mobile Testing.

Introduction
- Software Development Process
- Project Vs Product
- Objectives of Testing
- Testing Principals
- SDLC

SDLC Models
- Waterfall Model
- Incremental Models
- V Model
- Prototype Model
- Agile Model (Scrum)
- Agile with DevOps
- How to Choose Model for a Project

Software Testing-Methods
- White Box Testing
- Block Box Testing
- Gray Box Testing

Levels of Testing
- **Unit Testing**
    - Structural Testing
    - Statement Coverage Testing
    - Condition Coverage Testing
    - Branch Coverage Testing
    - Path Coverage Testing

- **Integration Testing**
    - Big Bang Integration
    - Top Down Approach
    - Bottom up approach
    - Stubs and Drives

System Testing
- Functional Testing
- Non Functional Testing
    - Compatibility Testing
    - Performance Testing
    - Load Testing
    - Volume Testing
    - Stress Testing
    - Recovery Testing
    - Installation Testing
    - Globalization Testing
    - I18N
    - L10N
    - Security Testing
    - Usability Testing
    - Accessibility Testing

User Acceptance Testing
- Alpha Testing
- Beta Testing

Testing Terminology
- Functional Testing
- End-End Testing
- Ad-hoc Testing
- Risk Based Testing
- Sanity/Smoke Testing
- Re-Testing
- Regression Testing
- Exploratory Testing
- Parallel Testing
- Concurrent Testing

Windows & Web Application Testing
- Check List for Window App Testing
- Check List for Web Application Testing
- Web App Testing Terminology

Software Testing Life Cycle (STLC)
Test Strategy
Test Planning
Test Cases Design
- Error Guessing
- Equivalence Partition
- Boundary Value Analysis

- Test Case Authoring
- Functional Test Case
- Review Test Case
- Walkthroughs
- Inspection
- Peer Review
- Traceability Matrix

Build Release Process
- SRN & DD
- Build Deployment
- Project Dev Env (Dev, Test, Prod)

Defect Reporting & Tracking
- Defect Reporting
- Defect Life Cycle
- Severity, Priority
- Defect Tracking Tools

Test Closure
- Criteria for Test Closure
- Test Summary Reports

Test Management using Jira
- Jira Introduction
- Create project in Jira
- Jira Administration
- Creating users
- Access to projects
- Permissions to projects
- Test Management Plugins
- Design TestCases
- Review TestCases and Status updates
- Create TestCycles
- Running TestCases and Reporting
- Issue Reporting
- Work Flows
- Agile process in Jira
- Creating scrums
- Dashboard

Database SQL
- Introduction to Database
- Writing SQL queries to work with Database
- DDL, DML, DTL Statements , Writing & Executing Queries
- Procedures
- Triggers
- Constraints, Rules..etc

Additional Skills
- Introduction to Configuration Management Tools, Code Management Tools, Test Management Tools..etc and differences
- Project Metrics
- QA & QC
- Interview Question
- Organization Hierarchy
- Role of Project Team Members

Trending Technology Skills

About Cloud Technology like AWS, Google Cloud
- Setting up AWS and Creating Instances
- Working on AWS
- What is SAAS, PAAS…etc

About Web Services
- What is WebService and Technology
- How WebServices Works
- How to Test WebServices and Tools available for Automation

About Mobile Applications
- What are different Mobile Apps
- Introduction to Mobile Apps Testing
- How to Test Mobile Apps on Cloud
- What are the Tools for Automation