

Coding your Thoughts..

Software Testing Syllabus

Course Outline

Module 1:-

- Importance of Software Testing and Why Software Testing is so important.
- Career and Future in Software
 Testing
- Types of Organizations and Team Structure
- Project Bidding and Initiation
- Kick of Meetings
- What is Requirement Document(SRS/Approved SRS)
- Requirement Gathering and Query log

Module 2:-

- Defects/Bug and Error
- Why Software have Bugs
- Types of Software Testing
- Black Box Testing,
- White Box Testing
- Grey Box Testing
- Functional Testing
- Unit Testing
- Build Verification Testing(BVT)
- Tracker Tools (Task Tracking Tools)
- Environments (Dev, QA, Staging, Prod and Mirror Prod)
- Unit Testing and Smoke Testing

Module 3:-

Priority and Severity

- Compatibility Testing
- System Testing
- System Integration Testing
- Retesting
- Sanity Testing
- Difference between Sanity and Smoke Testing
- Test Case Writing and Execution
- Test Case Design Guidelines
- Equivalence Partitioning and Boundary Value Analysis
- Test Scenario Design
- Test Coverage and Analysis

Module 4:-

- Negative testing and Exhaustive Testing
- Ad Hoc Testing
- Live Project 2 Discussion
- Regression Testing
- User Acceptance Testing (UAT)
- Root Cause Analysis
- Alpha Testing
- Beta Testing
- Load Testing, Volume Testing and Stress Testing
- Guest Lecture (Case Study of their project)
- Review (Peer Review/ Walkthrough/ inspection)
- Defect Life Cycle and Bug Follow
 Up
- Defect Tracking Tools (Bugzila, Jira and HPQC)



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- Jira task Creation, Bug creation and Report Generation
- Module 5:-
 - Software Development Life Cycle (SDLC)
 - Software Test Life Cycle(STLC)
 - Verification and Validation
 - Introduction of Agile
 Methodology
 - Agile Terminology and workflow
 - Test Plan and Test Management
 - Test Closure Activity
 - Project Risk and Mitigation
 - Client Sign off Documents
 - Do's and Don't in Software Testing
 - What is Quality and Attributes of Quality
 - Quality Assurance and Quality Control
 - Quality Management Software (QMS)
- Module 6:-
 - Capability Maturity Model Integration (CMMI)
 - Demonstration of Automation
 Testing
 - Monolithic and Micro services
 - How start Automation Testing and Pre- Requisite
 - Live Project Assignments to Students
 - ISTQB Certification, Pattern and Question Papers

- Resume Writing and Interview Questions
- Job Recommendation Interviews and Feedback
- Module 7:-
 - Project on Banking Domain
 - Profession Resume Preparation
 - Written Test Preparations
 - Interview Questions
 - Virtual Interview Sessions
 - Profile Creation on Job Portal
 - Interview Schedule and Recommendations
 - Feedback Collection





