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## Content of 6 Months Software Testing Training at EH1-Infotech

### **Module 1: Introduction to Software Testing**

- Basics of S/W testing
- Testing introduction and terminology
- Verification and Validation
- Roles & Responsibilities of Software Engineer

### **Module 2: SQA Basics**

- Basics of Computers
- Defining Software Quality Assurance and Software Quality Control
- Need for SQA
- What is Testing?
- Why is Testing important?

### **Module 3: Software development life cycle (SDLC)**

- Preliminary analysis
- Systems analysis, requirements definition
- Systems design
- Development
- Integration and testing
- Acceptance, installation, deployment
- Maintenance
- Evaluation
- Disposal

### **Module 4: SDLC Models**

- Waterfall Model
- Iterative Model
- Spiral Model
- V-Model
- Big Bang Model

## Module 5: Testing

- Testing Strategy
- How to write a Test Plan?
- Understanding Test Scenarios?
- How to write Test Case?
- How to write Test Scripts?
- Testing Types: Positive and Negative Testing
- Test Summary Report
- Software Testing Life Cycle (STLC)
- Traceability Matrix
- Traceability Matrix
- Types of Testing Methodologies
- Testing Standards
- Test Strategy and Planning
- Sandbox Environment Vs Production Environment
- Test Data and Test Execution
- Test Logs and Reports
- Severity Vs. Priority
- Manual Testing Vs. Automated Testing
- Testing Tools
- Quality Assurance Vs Quality Check

## Module 6: Testing Methodologies

- White box testing
- Black box testing
- Gray box testing

## Module 7: Testing Types

- Unit Test
- Integration Test
- System Test
- Regression Test
- Functionality Test
- Load / Performance Test
- Stress Test
- Compatibility Test
- User Acceptance Test

## **Module 8: Mobile Testing**

- Introduction to Mobile Testing
- What is Mobile Application Testing?
- Need of Mobile Application Testing
- Mobile Technology
- Different Mobile OS
- Mobile devices
- Android Framework
- Emulator and Simulator
- Mobile Functional Testing with tools
- Mobile Performance Testing with tools

### **Test 1: Includes Module 1 to 8**

## **Module 9: DATABASE TESTING**

- Introduction to Database Testing
- Why Backend Testing is so important?
- Characteristics of Backend Testing
- Backend Testing phases
- Backend Test methods

## **Module 10: Structural Back End Tests**

- Database Schema Tests
- Stored Procedure Tests
- Trigger Tests
- Integration Tests of SQL server
- Server Setup Scripts
- Common Bugs

## **Module 11: Functional Back End Tests**

- Dividing Backend based on Functionality
- Checking data Integrity and Consistency
- Login and User Security
- Stress Testing
- Test Backend via Frontend
- Benchmark Testing
- Common Bugs

## **Module 12: Testing the Nightly downloading and Distribution Jobs**

- Batch jobs
- Data downloading
- Data conversion
- Data distribution
- Nightly Time Window
- Common Bugs

## **Module 13: Testing the Interfaces to Transaction APIS**

- APIs' queries to Backend
- Outputs of Backend to APIs
- Common Bugs

## **Module 14: Other Database testing Issues**

- Test tips
- Test tools
- Useful queries
- Smoke Test
- Sanity Test
- Backend Test
- Security Test
- Browser Compatibility Test
- Automated Testing and Automated Testing Tools
- Interview Questions and Mock Interview Preparation

## **Module 15: Selenium**

- Introduction of Java
- Why we need Java for Selenium
- Variables and Data type
- Control Statement in Java
- Looping in Java
- Constructor in Java
- Method in Java
- Class and Object

- Exception Handling Basic (Try & Catch)
- Introduction to Selenium
- Why we need Selenium?
- Difference between Selenium & QTP (Quick Test Professional)
- Selenium Components
  - ✓ Selenium IDE (Integrated Development Environment)
  - ✓ Selenium RC (Remote Control)
  - ✓ Selenium Web Driver
  - ✓ Selenium Grid
- Installation of Selenium IDE & Firebug in Browser
- Introduction & Working with IDE & Firebug
- Record & Run Script with IDE
- Aware About Selenium RC (Remote Control)
- Introduction About Selenium Web Driver
  - ✓ Installation of JDK & Eclipse IDE
  - ✓ Integrate Selenium Web driver to Eclipse
  - ✓ Use of Locaters in Selenium
  - ✓ Working with Selenium Web Driver using java code
  - ✓ Make Operation like Select dropdown, click on link, Enter Text in Text field, click on Button etc.
  - ✓ Parameterization
  - ✓ Take Screenshot in Selenium Web Driver
  - ✓ Excel in Selenium web Driver
- Aware About Selenium Grid

## **Module 16: Load Runner**

- Introduction to Performance Testing
- Types of Performance Testing
- Load Runner Expert Workflow in a Big Picture
- Components involved in Load runner
- Details of all the Components
- Load Generators and its role play in Performance Testing
- Work flow of Load runner
- Protocols
- Settings
- Concepts to be focused on
- Correlation
- Other supporting tools

- Parameterization
- Checkpoints
- Rendezvous points
- Setting up of Scenarios
- Linking of load generators and controllers
- Concepts to be Focused On
- Scheduling of Scenarios
- Monitors
- Performance Bottlenecks
- Test result Analysis

### **Module 17: JMeter**

- Introduction of JMeter
- Steps to install JMeter
- Performance Testing Using JMeter
- Use of Thread Group in JMeter
- Use of Timer in JMeter
- Use of Assertion in JMeter
- Use of Controller in JMeter
- Monitor the Performance

### **Module 18: HP Quality Center (QC)**

- Overview of Quality Center
- Full Working Knowledge
- Modules: Requirements, Test Plan, Test Lab and Defects

### **Module 19: Bug and Defect Reporting Process**

- DLC – Defect Life Cycle
- Defect Management
- Defect Tracking
- Understanding Priority and Severity
- Defect Report – Through Microsoft Office or HP Quality Center
- Fundamentals of Bug Tracking Tool [Bugzilla]
- Mantis Bug Tracker
- Impact Analysis

**Test 2: Includes Module 9 to 19**

**Module 20: Basic Ethical Hacking Module**

**Module 21: Project Work + Job Interviews Starts**

Handwritten Feedback's of students at <http://feedback.eh1infotech.com>

Job Alerts also provided at <http://www.facebook.com/eh1infotech>

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