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## QUALITY ASSURANCE (QA) – SOFTWARE TESTING OUTLINE

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<b>COURSE:</b>	<b>Quality Assurance (QA)</b>
<b>RECOMMENDED TEXT(S):</b>	<b>None</b>
<b>COURSE DESCRIPTION:</b>	Provide skills for both manual and automated software testing. Software testers will test software resources for every testing phase including the maintenance of your application. Our trainers are software testers who have completed rigorous QA training and are well-versed in the latest techniques and technologies. Career Opportunities: Software testing Technicians.
<b>PREREQUISITE(S):</b>	<b>Knowledge of Windows Applications.</b>
<b>COURSE OUTLINES:</b>	<b>MANUAL TEST PROCESS IMPLEMENTATION</b>  <b>Class 1</b> <ul style="list-style-type: none"><li>• Introduction to Software Testing and Quality</li><li>• Software Life Cycle Stages</li><li>• Software Development Models</li><li>• Software Quality Assurance Standards</li><li>• The mind of a Software Tester</li><li>• Principles of Software Testing</li></ul>

## **Class 2**

- Agile and Software Testing
- Test Designs – Static analysis, black-box, white-box, Equivalence Partitioning, Boundary Value Analysis, Decision Tables, State Transition, Use case
- Test Cycles – Unit, Functional System, System Integration, Performance, User Acceptance Testing, Regression, Smoke, Exploratory Testing

## **Class 3**

- What is a defect
- Defect Classification and Priority
- Defect Lifecycle
- Defect Management System – JIRA Agile
- Test Deliverables: Test Strategy, Test Plan, Test cases, Requirements Traceability, Test Data, Test Scripts, Defect Report, Test Report

## **Class 4**

- Basic SQL
- SQL Functions
- Database Testing
- Course work – Oracle

## **AUTOMATION TESTING**

### **Class 5**

- Introduction to Automation Testing
- Design and development of test scripts
- Scripting with Selenium, WebDriver
- Introduction to Java, Eclipse IDE
- Firebug – ID and xpath
- Automation Project

### **Class 6**

- Java Commands
- If/else,
- While()
- Do while()
- For()

### **Class 7**

- Web and Browser Compatibility Test
- Client and Server Architecture
- Web Service , REST and SOAP
- Mobile App Testing, Emulators and Real device
- Emulators, SOAP UI

### **Class 8**

- QTP testing Process – (Record and run process)
- Different types of checkpoints – (Standard checkpoints and supported checkpoints)



- Parameterization
- Actions – (Different types of actions, nesting the actions)
- Object repository
- Object spy

#### **Class 9**

- XML-and HTML
- Working with data tables
- QTP Automation and test automation framework
- QTP and Working with schedule task

#### **Class 10**

- Interview Preparation
- Interview Questions