Syllabus of testing

**QA Testing Course Syllabus | Software Quality Assurance Testing Training**

**Module 1**

**SDLC**

* What is Software development life cycle?
* Phases of SDLC
* Models of SDLC-Waterfall, Agile and Agile Scrum
  + Waterfall
  + What is the difference between Waterfall and Agile?
  + Advantages of using Agile Over Waterfall
  + Agile Scrum
    - User story, Story Points, Product backlog, Sprint backlog, Roles and responsibility of a scrum master and Product owner
    - Meetings conducted in Agile Scrum

**Module 2  
Types of Testing**

* Static Testing/Dynamic Testing
* Regression/ Retesting
* Usability/ accessibility
* Smoke / Sanity testing
* Unit Testing/ Integration Testing/ System Testing
* UAT – Alpha Testing /Beta Testing
* White Box/Black box testing
* Functional/Non-functional Testing
* Performance Testing
  + Load Testing
  + Stress Testing
  + Endurance Testing

**Module 3**

**Requirement/ TestCase/ Test Data**

* Understanding requirements
* Writing Test Cases
  + What is a Test Case
  + Format of a Test Case
  + Review of Test Case
  + Execution of Test case
* Creating Test data
  + Equivalence partitioning
  + Boundary value analysis

**Module 4**

**STLC**

* STLC(Software Testing Life cycle)

Test Planning

Test Plan

* What is a test Plan
  + - * Who creates a Test Plan
      * When is the Test Plan created
      * Purpose of creating a Test Plan
      * Components of a Test plan.
* Test design
* Test implementation and Execution
* Defect Reporting and tracking
  + - * Defect life cycle
* Test closures
* Test metrics

**Module 5**

**Quality Center | HP ALM  Test Management Tool**

* What is QC (Quality Center) / HP Application Life Cycle Management
* Why use QC (QualityCenter) / HP Application Life Cycle Management
* Modules of QC (QualityCenter) / HP Application Life Cycle Management

Write requirements in QC (QualityCenter) / HP Application Life Cycle Management

* Write test Cases in QC (QualityCenter) / HP Application Life Cycle Management
* Traceability in QC (QualityCenter) / HP Application Life Cycle Management
* log defects in QC (QualityCenter) / HP Application Life Cycle Management
* Associate a defect with the Test Cases in QC? (Quality Center) / HP Application Life Cycle Management

**Module 6**

**SQL (Structured Query Language)**

* Basic concepts of Database
* Primary Key
* foreign Key
* SQL
  + SQL Select
  + SQL Where
  + SQL Distinct
  + SQL AND & OR
  + SQL Order BY
  + SQL Like
  + SQL Wildcards
  + SQL IN
  + SQL Between
* Aggregate Functions
* Having Clause
* Difference between Having and Where clause
* Group by clause
* SQL Joins
  + SQL Inner Join
  + SQL Left Join
  + SQL Right Join
  + SQL Full Join

**Module 7**

UNIX/LINUX

* What is the Tester’s Role in Unix/LINUX?
* How to login to UNIX / Linux using Putty tool
* Important UNIX commands

**Module 8**

Selenium webdriver training for automation testing

* Components in Selenium WebDriver training
* Architecture of Selenium
* Record and Playback