

## **Curriculum**

- 1. Unit testing introduction**
  - a. What unit test mean and importance
  - b. Unit test coverages: code, branch and statement
  - c. Unit testing in Java
- 2. Junit installation and compilation**
  - a. Installing and configuring Junit with Eclipse
  - b. Defining test case in Junit and running in Eclipse
  - c. Junit perspective for reporting
- 3. JUnit complete step**
  - a. Create a project in Eclipse
  - b. Create a java class to be tested
  - c. Create and run a JUnit test case
  - d. Using @Ignore annotation
  - e. Creating suite tests
  - f. Creating parameterized tests
  - g. Rules
- 4. Junit Annotations**
  - a. After
  - b. AfterClass
  - c. Before
  - d. BeforeClass
  - e. Ignore
  - f. Test
- 5. Junit Assertions**
  - a. Assert
  - b. AssertEquals
  - c. AssertTrue and AssertFalse
  - d. Fail
  - e. AssertNull
  - f. AssertSame and AssertNotSame
  - g. AssertThat
- 6. Junit Assume methods**
  - a. AssumeTrue
  - b. AssumeThat
  - c. AssumeNotNull
  - d. AssumeNoException
- 7. Junit naming conventions**
  - a. Suffix "-test" to test classes
  - b. Using "should" inside method names
  - c. Suffix "Test" while Junit is in Maven
- 8. Junit Test Suite to execute multiple test classes**
  - a. @RunWith(Suite.class)
  - b. @SuiteClasses annotation
- 9. Junit Test Runner to run multiple test cases together**
  - a. junit.runner.JUnit4
  - b. junit.runner.Result
  - c. junit.runner.notification.Failure and success

- 10. Junit with Selenium Webdriver test cases**
- 11. Running Junit from command line**