# **Automating Checking - Phase 3 - Test Automation Challenge and Workshops**

## **Quality Metrics**

- they are all subjective
- they are all with their flaws

#### From manual course:

#### **Test cycle Closure**

#### Activities:

- evaluation cycle completion criteria based on time, test coverage, cost, software,
  critical business objectives and quality
- prepare test metrics based on the above parameters
- document the learning out of the project
- prepare test summary report
- qualitative and quantitative reporting of the quality of the work product to the customer
- test result analysis to find out the defect distribution by type and severity

#### **Deliverables**

- test closure report
- test metrics

### **Test Metrics**

SNO	Required Data
1	No. Of Requirements
2	Avg. No. of Test Cases written Per Requirement
3	Total No. of Test Cases written for all Requirement
4	Total No. Of test cases Executed
5	No.of Test Cases Passed
6	No.of Test Cases Failed
7	No.of Test cases Blocked
8	No. Of Test Cases Un Executed
9	Total No. Of Defects Identified
10	Critical Defects Count
11	Higher Defects Count
12	Medium Defects Count
13	Low Defects Count
14	Customer Defects
15	No.of defects found in UAT

## **Test Metrics**

- % of Test cases Executed:
  No.of Test cases executed / Total No. of Test cases written) \* 100
- % of test cases NOT executed: (No.of Test cases NOT executed/Total No. of Test cases written) \* 100
- % Test cases passed
   (No.of Test cases Passed /Total Test cases executed) \* 100
- % Test cases failed (No.of Test cases failed / Total Test cases executed) \* 100
- %Test cases blocked
   (No.of test cases blocked / Total Test cases executed ) \* 100

## **Test Metrics**

Defect Density: Number of defects identified per requirement/s

No.of defects found / Size(No. of requirements)

Defect Removal Efficiency (DRE):

(A/A+B)\*100

(Fixed Defects / (Fixed Defects + Missed defects)) \* 100

- · A- Defects identified during testing/ Fixed Defects
- B- Defects identified by the customer/Missed defects
- Defect Leakage:

(No. of defects found in UAT / No. of defects found in Testing) \* 100

Defect Rejection Ratio:

(No. of defect rejected /Total No. of defects raised) \* 100

- Defect Age: Fixed date-Reported date
- Customer satisfaction = No.of complaints per Period of time

# **QA/Testing Activities**

- Understanding the requirements and functional specifications of the application.
- Identifying required Test Scenario's.
- Designing Test Cases to validate application.
- Setting up Test Environment(Test Bed)
- Execute Test Cases to valid application
- Log Test results ( How many test cases pass/fail ).
- Defect reporting and tracking.
- Retest fixed defects of previous build
- Perform various types of testing's in application.
- Reports to Test Lead about the status of assigned tasks
- Participated in regular team meetings.
- Creating automation scripts.
- Provides recommendation on whether or not the application / system is ready for production.