***QA FAQ***

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# Types of metrics

There are three types of Metrics

1. Product Metric
2. Project Metric
3. Progress Metric

**Project metrics:-**A set of metrics that indicate how the project is planned and executed

1. Effort variance
2. Schedule variance

Effort variance:-Actual effort-estimated effort/estimated effort\*100

The value of the effort variance should be always less that 5% negative value is also Acceptable

**Progress metrics:** - A set of metrics that track how the different activities of project are progressing the activity include both development and Testing

**Productivity metrics:-**A set of metrics that takes into account various productivity number that can be collected and used for planning and tracking activities

**Outstanding defect rate:-**Total defect found-Total defect fixed

**Defect Density:-**Total defect found in the product/No of executable line of code in KLOC

**Defect Removal Rate:-**

(Defect found during verification activity)+ (Defect found in unit testing)/Defect found by test team)\*100

**Defect per 100 Hours of Testing**

(Total defect found in the product for period/Total hours spent to get those defect)\*100

**Test case Executed per 100 hours of Testing**

Total Test Case executed for a period /Total hours spend in test execution)\*100

**Test Case Developed per 100 Hours of Testing**

(Total Test case developed for a period)/ (Total hours spend in test case development)

**Defect per 100 Test case**

(Total Defect found for a period)/ (Total test case execute for same period)

**Defect per 100 failed test case**

(Total defect found for a period)/ (total test case failed due to those defect)\*100

**Defect detection percentage:-**total number of bug found by test team/(customer bugs Test team bug)

**Defect Removal efficiency -**Total number of fixed issue/total bug found by test team

**Acceptance defect:-**Number of valid issue/Total number of defect

**Reject Defect:-**Number of invalid defect/total number of defect

**Test efficiency:-**valid defect found by test team/Test team defect customer defect

**Scope change:-**total scope-previous scope/previous scope

# Test case Design

1. Boundary value analysis
2. Equivalence portion
3. Decision Table

Boundary Value analysis:-This technique is used to test the application with maximum and range of values

Equivalence portion testing design:- This technique is used to test the application with valid and invalid input examples special character

Decision table testing:- This type of testing is used test application for Boolean values (Yes and no) factors