Test Management Part 2

Test Maturity Model



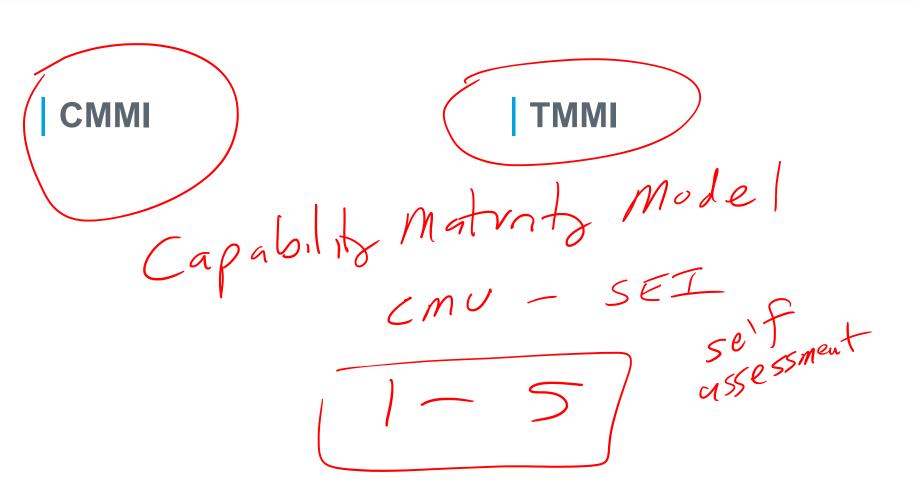
Objective



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Assess the maturity level of a testing organization.

Applicable Maturity Models



CMMI Levels

1-5

HMOS

Initial: adhoc

Repeatable: expertise lies in individuals

Defined: processes are defined and documented

Managed: metrics are used extensively to guide process

Optimizing: emphasis on continuous improvement

Test maturity model Integrated

Developed in an analogous manner to assess maturity of testing process

Five levels of maturity defined

Each level has goals and subgoals that are achieved via ATRs (activities, tasks, responsibilities)

TMMI Level 1. Initial

Ad hoc testing without specific goals

Test process begins after code is written

Testing is not a priority

Test tracking is not performed

TMMI Level 2: Phase Definition

Software testing plans are developed that include well defined testing phases

Basic testing methods are introduced

Goals for testing are defined

TMMI Level 3: Integration

Software testing is integrated into the software development process

Test progress is monitored and tracked

Testers are trained

Test plan risk management is performed

TMMI Level 4: Management and Measurement

Metrics are introduced to assess test process

Review processes are introduced to assess effectiveness and efficiency

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TMMI Level 5: Optimization, Defect Prevention and Quality Control

Root cause analysis is performed to prevent defects from reaching the customer

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Statistical quality control used to monitor test process

Test process improvement implemented

Summary

CMMI ~ TMMI