

ADVANCED SYSTEM TESTING

One-day workshop

Overview

The key to building excellent software is not by performing system testing but by having good understanding of customer expectations.

Workshop Objective

This one-day workshop focuses on understanding defect escapes and formulating effective strategy/plan, implementing early defect removal steps, and a detailed treatment of using metrics for objective quality assessment and process model building.

Topics of discussion

Best practices for test strategy and planning

- Requirement abstract and prioritization
- Levels of testing and scope finalization involving affected parties
- High-level estimation
- Detail estimation and planning

Effectively control the factors influencing system test execution cycle time

- Steps to define and measure input quality to testing phase
- Strategy for continuously improving quality of input to system testing phase
- Level of participation of testing team effectively during unit and integration testing phase
- Analysis of failures during initial levels of testing

Metrics analysis

- Test metrics - what to collect
- Objective assessment of product quality, process capability and status reporting
- Test cycle report with clear identification of risks and recommended plan to mitigate them

Focus on test automation

Factors to consider for test automation

Test automation tools

Components of a test automation framework

Good practices to increase system test coverage

Identify critical non-functional requirements

Plan and process for testing them at the right time

Effective stakeholder management

Pre and post release defect analysis and conclusions

Active participation in identifying product, people and process issues and to plan appropriate corrective actions at each cycle

Risk assessment and negotiation with all concerned on recommended actions for every release

Workshop benefits

At the end of the workshop, the participant will be able to:

- Formulate effective test strategy and plan
- Define and measure quality
- Perform test metrics

Who should attend?

Senior test engineers, Test Managers, Project manager, Program manager

Prerequisites

Participants are expected to have performed full time system testing for at least three years.

Delivery method

The workshop consists of classroom discussions and a problem solving/case-study session. It adopts our unique learning model. This enables participants listen to lecture on a topic, introspect using a structured questionnaire, explore the topic - hands-on session, discuss the learning after exploration and finally read the supplemental course notes.