Introduction to Testing

Instructor-Led Training

INTENDED AUDIENCE

- QA testers
- QA Managers
- Business Analysts
- Project Managers

OVERVIEW

This course provides the basics of software testing. It discusses several testing principles, models, and techniques in order to grasp the purpose for software testing.

COURSE OBJECTIVES

At the end of the course, you will be able to:

- Describe basic software testing principles.
- Outline the process used to test business requirements.
- Discuss a variety of testing model.
- Apply risk management strategies to software testing goals.
- Utilize reporting capabilities and Key Performance Indicators (KPIs) to measure success.

DURATION: 2 DAYS

PREREQUISITES

- System Administration experience with Windows, Solaris, or Linux systems
- Familiarity with enterprise system management concepts

RECOMMENDED FOLLOW-UP COURSES

- None

* This Course Outline is a draft. Course title, description, timing, agenda and topics subject to change.

Day 1	**Course Introduction** • Participant introductions • Administration and Housekeeping • Facilities • Participants' responsibilities • Course objectives • Course outline • Labs • Survey
	I. Overview of Testing • Explain the basics of testing • Describe the Software Development Lifecycle (SDLC) • Provide an overview of several SDLC models • Describe and apply the available types of testing • Define White box and Black box testing techniques
	II. Requirements and Testing • Explore the topic of business requirements • Build tests to cover requirements • Describe the methodology behind building test rules and test cases
	III. Test Execution • Execute test cases based upon test rules • Document results based on requirements • Defects reporting

Day 2	**IV. Understanding Risk** • Defining risk and how it relates to software testing • Outline the principles of Business Impact Testing • Describe some methods of mitigating risk
	V. Measuring Success • Summarize the Goal-driven KPI approach (SUCCESSFUL method) • Build baselines • Align goals with results
	(Optional) Non-Functional Testing • Define Non-Functional Testing • The Sequence of Non-Functional Testing: • Performance, Load, Availability and Reliability Testing
	(Optional) Advanced Testing Topics • Describe evolving test environments • Explore how certain technologies affect software testing