SETC Training Corporate Logo

Testing Training: The Complete Lifecycle (TQCOMP, 4 jours)

Description

The course A Complete Course (Testing & Quality Assurance Training) focuses on industry best practices in software testing & quality assurance. The training includes testing & bug types, functional requirements, test plans & test cases and test plan development to name a few. The course also covers test automation, test driven development & quality assurance.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

Fundamentals of Testing Part I

- Testing: Roles and Responsibilities
- Testing Axioms
- Terms and Definitions
- Types of Testing: Unit, Regression, User Acceptance, Usability, etc..
- A Looming Security Threat: The User

Bugs and Defects

- History of Bugs: Infamous Software Disasters
- Types of Defects
- What is a Bug?
- Common Software Errors
- Documenting and Reporting Bugs

Gathering Information

- Information Gathering Techniques
- Interviews and Focus Groups
- Questionnaires
- Decision Tables
- Condition Response Tables
- JAD Sessions

System Requirements

- About Analysis and Use Cases
- About Actors
- Finding Actors
- Documenting Actors
- Finding Use Cases
- Documenting Use Cases: Short Form versus Fully Dressed Use Cases
- UML Use Case Diagrams: A Useful Communication Tool
- The Supplemental Specification
- Requirements Based Testing
- Dealing with Large Systems
- Implementing a Change Management Process

Fundamentals of Testing Part II

- Black Box versus White Box Testing

- Static versus Dynamic Testing
- Testing the Specifications
- Testing Functions Testing Data
- Test-to-pass/Test-to-fail

Systems Development Lifecycle (SDLC)

- Waterfall versus Iterative Methodology
- Waterfall Methodologies
- Iterative Methodologies: RUP and MSF
- Phase Specific Responsibilities of the Testing Group

Testing Types

- Overview
- Objectives limits of testing
- Functional Testing versus Regression Testing
- Configuration/Compatibility Testing
- Testing Multi-Lingual Systems
- Usability Testing
- Web site Testing
- COTS Testing

Testing for Security

- Overview
- Threat Modeling
- Buffer Overruns
- Computer Forensics

Quality Assurance

- Responsibilities of the QA Group
- Expectation/Deliverables from QA
- Major Milestones in QA
- Implementing Quality Control
- QA and Standards

Test Cases

- What is a Test Case? What is a Test Plan
- Characteristics of a Good Test Case
- Test Case Design
- Test Plans
- Writing effective Test Cases Validating Test Cases

Review, Inspections and Documentation

- Testing Review:
- Writing Testing Documents
- The Master Test Plan
- Test Metrics
- Test Coverage
- Conducting Walkthroughs and Reviews

Automation Tools

- Automation Tools
- Overview of Test Case Management Tools
- Overview of Defect Tracking Tools
- Software Configuration Management Tools
- Manual Vs Automated Testing: Why not everything can be automated.
- Importance of Automation