

SOFTWARE TESTING

Duration : 2 Days

Course Content

This course will learn about software testing to minimize software error in production environment.

Prerequisites

- Basic understanding of software development

Who Should Attend

- Software Quality Assurance
- Software Tester
- Software Developer

Course Outline

- Fundamental of Testing
 - Why is Testing Necessary?
 - Software Systems Context
 - Causes of Software Defects
 - Role of Testing in Software Development, Maintenance and Operations
 - Testing and Quality
 - How Much Testing is Enough?
 - What is Testing?
 - Seven Testing Principles

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- Software Development Models
 - The Waterfall Development Process
 - V-model (Sequential Development Model)
 - Iterative-incremental Development Models
- Fundamental Test Process
 - Test Planning and Control
 - Test Analysis and Design
 - Test Implementation and Execution
 - Evaluating Exit Criteria and Reporting
 - Test Closure Activities
 - Metrics and Measurement
 - The Psychology Of Testing
- Test Levels and Type
 - Component Testing
 - Integration Testing
 - System Testing
 - Acceptance Testing
 - Type of Testing
- Security Testing
 - Security Vulnerability Testing
 - Characteristics of a Secure Software
 - Threat Modeling
 - Popular Software Attacks
- Tools for Security Testing
 - Test Tool Concepts

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- Test Automation Benefits
- Test Tool Concepts
- Test Automation Risks
- Test Automation Strategies
- Test Automation Principles
- Test Tool Classification
- Risk and Testing
 - Product Risks
 - Project Risks
 - Risk-Based Testing
 - Risk Management
 - Risk Identification
 - Risk Analysis (Assessment)
 - Risk Control

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