





Course Outline



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Module 1 - Managing Software Quality

What Modules are covered?

1) Quick Overview on Testing

- 2) Software Quality Definition
- 3) SQA and Testing Defined and Distinguished
- 4) The difference between QA and QC
- 5) The software quality assurance 6) Role of software quality manager
- Module 2 Skillset of Software Quality Manager

2) Requirement Management and Engineering

3) Change Control and Release Management

1) Managing Software Quality

- 4) Assuring Quality during Development
- 5) Best Practices in Software Testing
- Module 3 Best Practices 1) Best Practices in Software Inspections and Reviews

2) Defect Tracking and Reporting

- 3) Defect Prevention
- 4) Process Improvement Models

5) Lean Software Process

- Module 4 Software Quality Assurance 1) Stakeholder Identification
- 2) Developing SQA Plan 3) Establishing Budget
- 4) Establishing Mission Objectives 5) Selling SQA to Management
- 6) Demonstrating ROI for SQA efforts 7) Base lining current software quality lines
- 8) Defining Standards and Methodologies
- 9) Instituting Metrics and Measurements 10) Deploying Processes
- 11) Evaluating Methodologies and Automated Tools 12) Implementing Defect Studies
- 1) Verification and Validation Method 2) Activities of User Acceptance Testing

3) Inspections and other forms of peer reviews

Module 5 – Defect Management

4) Forms of Inspections and Reviews 5) Effective and practical inspections practices

6) Code Analysis

- 7) Independent Verification and Validation
- 2) Identifying configuration management
- 5) Lean Software Process 6) Establishing and maintaining repositories
- 7) Assuring the integrity of software work products
- 2) Risk Identification and Classification 3) Establishes baselines
- 7) Monitoring and controlling risks 8) Contingency planning and mitigation

6) Risk reporting

- 1) Defining and Validating Requirements
- 2) Quality Vs Functional Requirements 3) Different Types of Quality Requirements
- 6) Requirement Traceability 7) Requirement Change Control

- Module 6 Configuration Management
- 1) Principles and activities of software quality management
- 4) Controlling change

3) Establishes baselines

- Module 7 Risk Analysis 1) Risk Analysis and Methodologies
- 4) Risk Prioritization and ranking 5) Calculating costs and probability

Module 8 - Requirement Engineering and Management

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- 4) Managing and Maintaining Requirements 5) Building a Requirement-Management Process

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