



Consulting and Training | Reach New Heights

Course Name

Software Quality Framework and Approaches

Sector Name

Information Technology

Document Type

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Software Quality Framework and Approaches

Course Introduction

The **Software Quality Framework and Approaches** course provides an in-depth understanding of the various frameworks and methodologies for ensuring software quality throughout the software development lifecycle. Delivered by **BOOST**, this course covers a range of best practices, industry standards, and approaches such as Agile, DevOps, and Total Quality Management (TQM) to achieve high-quality software products.

Participants will explore key quality management principles, software testing techniques, and continuous improvement strategies, while also learning how to implement a robust quality assurance (QA) process in their organizations. Through hands-on exercises, case studies, and real-world examples, this course will enable participants to improve the effectiveness and efficiency of their software development and testing processes.

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Software Quality Framework and Approaches

Target Audience

- ✓ Software developers and engineers
- ✓ Quality assurance (QA) specialists and testers
- ✓ Software project managers
- ✓ IT managers and team leads are overseeing software development
- ✓ Anyone interested in improving software quality through structured frameworks and approaches

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Learning Objectives

- ✓ Understand the importance of software quality and its impact on software development and user satisfaction.
- ✓ Apply quality frameworks and best practices to improve software development and testing processes.
- ✓ Implement testing strategies and methodologies in Agile, DevOps, and traditional software development environments.
- ✓ Develop a comprehensive software quality assurance (QA) plan that ensures high-quality software delivery.
- ✓ Leverage tools and techniques for automating testing and continuous integration/continuous delivery (CI/CD).
- ✓ Monitor and continuously improve software quality throughout the development lifecycle.

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Course Outline

✓ 01 DAY ONE

Introduction to Software Quality and Quality Frameworks

- ✓ Defining software quality: Importance, principles, and challenges
- ✓ Introduction to software quality frameworks and approaches
- ✓ Overview of industry standards: ISO 9001, CMMI, TQM, and Six Sigma
- ✓ Key principles of software quality assurance (QA)
- ✓ The role of QA in the software development lifecycle (SDLC)

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Course Outline

✓ 02 DAY TWO

Agile and DevOps in Software Quality Assurance

- ✓ Introduction to Agile methodology and its impact on software quality
- ✓ Agile quality practices: Test-driven development (TDD), behavior-driven development (BDD), and continuous integration
- ✓ Implementing quality assurance in Agile projects
- ✓ Overview of DevOps practices and their effect on software quality
- ✓ Integrating QA into DevOps pipelines: CI/CD, automated testing, and monitoring

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Course Outline

✓ 03 DAY THREE

Software Testing Strategies and Techniques

- ✓ The role of software testing in ensuring quality
- ✓ Types of software testing: Functional, non-functional, regression, unit, integration, system, and acceptance testing
- ✓ Testing techniques and strategies: Manual vs. automated testing
- ✓ Test case design and test management best practices
- ✓ Using testing tools: Selenium, JUnit, TestNG, and other testing automation tools

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Course Outline

✓ 04 DAY FOUR

Total Quality Management (TQM) and Continuous Improvement

- ✓ Introduction to Total Quality Management (TQM) and its principles
- ✓ Continuous improvement strategies for software quality: PDCA (Plan-Do-Check-Act) and Kaizen
- ✓ Implementing TQM in software development processes
- ✓ Software quality metrics and key performance indicators (KPIs)
- ✓ Analysing defects and root causes for continuous improvement

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✓ 05 DAY FIVE

Building a Robust Software Quality Assurance Plan

- ✓ Creating and implementing a comprehensive QA strategy
- ✓ Quality assurance across the entire SDLC: Planning, testing, deployment, and maintenance
- ✓ Monitoring and controlling software quality: Tools, techniques, and metrics
- ✓ Managing risk and quality issues in software development projects
- ✓ Reporting software quality: Communicating results to stakeholders

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Aug. 24, 2026	Aug. 28, 2026	5 days	4950.00 \$	Spain , Madrid
May 24, 2027	May 28, 2027	5 days	4250.00 \$	UAE , Dubai
Nov. 23, 2026	Nov. 27, 2026	5 days	4250.00 \$	UAE , Dubai
April 4, 2027	April 8, 2027	5 days	4250.00 \$	KSA , Riyadh

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