



Quality Management & Operational Excellence

# Agile Quality Management

## Course Introduction

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The Agile Quality Management Training Program is designed to equip professionals with the skills and knowledge needed to integrate Agile principles with effective quality management practices.

This 5-day program will explore the core concepts of Agile methodologies, delve into best practices for quality assurance, and provide hands-on experience with tools and techniques that enhance both agility and quality in projects.

Participants will learn how to align Agile practices with quality management goals, leverage Agile frameworks such as Scrum and Kanban, and implement strategies for continuous improvement and risk management.

Through a blend of theoretical instruction and practical exercises, this training will prepare attendees to effectively manage quality in Agile environments and drive successful project outcomes.

## Target Audience

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- Project Managers and Scrum Masters.
- Quality Assurance Professionals.
- Business Analysts.
- Developers and Technical Leads.
- Team Leaders and Members.
- IT and Software Professionals.
- Organizational Leaders and Change Agents.

## Learning Objectives

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- Explain the core principles and values of Agile.
- Identify key Agile frameworks and their impact on quality management.
- Apply Agile principles to enhance quality management processes.

- Utilize Agile planning techniques to ensure quality outcomes.
- Set up and manage CI/CD pipelines to support Agile development.
- Ensure quality through automated testing and deployment practices.
- Analyze Agile metrics to monitor and improve quality.
- Develop and apply strategies for continuous quality improvement.
- Identify and assess risks in Agile projects.
- Implement risk management and mitigation strategies to address quality risks.
- Implement Test-Driven Development (TDD) and Behavior-Driven Development (BDD).
- Conduct exploratory and regression testing to ensure high quality.
- Improve team collaboration using Agile tools and techniques.
- Foster effective communication within Agile teams.
- Use retrospectives and feedback loops to drive continuous improvement.
- Develop and implement process improvement plans.

## Course Outline

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### • 01 DAY ONE

#### Introduction to Agile and Quality Management

- Overview of Agile Methodology
- Principles and values of Agile
- Agile frameworks (Scrum, Kanban, Lean)
- Introduction to Quality Management
- Definition and importance of quality
- Key concepts in quality management (e.g., Six Sigma, TQM)
- Agile and Quality Management Integration
- How Agile principles align with quality management
- Benefits of integrating Agile with quality practices
- Case Study: Successful Agile Quality Management Implementation

### • 02 DAY TWO

#### Agile Frameworks and Their Impact on Quality

- Deep Dive into Scrum
- Scrum roles (Product Owner, Scrum Master, Development Team)
- Scrum artifacts (Product Backlog, Sprint Backlog, Increment)
- Scrum events (Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective)
- Deep Dive into Kanban
- Kanban principles
- Visual management and workflow optimization
- Quality Management in Scrum
- Quality assurance practices in Scrum
- Techniques for ensuring quality in iterative development
- Quality Management in Kanban
- Managing flow and quality through Kanban
- Continuous improvement and quality metrics

#### **Agile Planning and Quality Assurance**

- Agile Planning Techniques
- Release planning, iteration planning, and daily stand-ups
- User stories and acceptance criteria
- Quality Assurance in Agile
- Role of QA in Agile projects
- QA techniques and tools (e.g., automated testing, continuous integration)

### **• 03 DAY THREE**

#### **Continuous Integration and Continuous Delivery (CI/CD)**

- Overview of CI/CD
- Concepts and benefits of CI/CD
- CI/CD pipelines and tools (e.g., Jenkins, GitLab CI/CD)
- Integrating CI/CD with Agile
- How CI/CD supports Agile practices
- Ensuring quality through automated testing and deployment

## **Agile Metrics and Measurement**

- Key Agile Metrics
- Velocity, burn-down charts, cycle time
- Measuring quality in Agile projects
- Using Metrics for Continuous Improvement
- Analyzing metrics to identify improvement areas
- Implementing changes based on metrics

## **• 04 DAY FOUR**

### **Risk Management in Agile**

- Agile Risk Management
- Identifying and assessing risks in Agile projects
- Risk response planning and mitigation strategies
- Quality Risks and Their Management
- Common quality risks in Agile
- Strategies to manage and mitigate quality risks

### **Agile Quality Practices and Techniques**

- Agile Quality Practices
- Test-Driven Development (TDD)
- Behavior-Driven Development (BDD)
- Agile Testing Techniques
- Exploratory testing
- Regression testing in Agile

## • 05 DAY FIVE

### Agile Team Collaboration and Communication

- Enhancing Team Collaboration
- Agile team roles and responsibilities
- Effective communication techniques
- Collaboration Tools
- Tools for Agile collaboration (e.g., Jira, Trello, Slack)

### Agile Process Improvement

- Continuous Improvement in Agile
- Techniques for process improvement (e.g., retrospectives, Kaizen)
- Implementing feedback loops
- Quality Improvement Strategies
- Techniques for improving quality in Agile projects
- Real-world examples of quality improvements

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 7, 2025	April 11, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
July 13, 2025	July 17, 2025	5 days	2150.00 \$	Virtual - Online

FROM	TO	DURATION	FEES	LOCATION
Aug. 25, 2025	Aug. 29, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 22, 2025	Dec. 26, 2025	5 days	4950.00 \$	Indonsia - Jakarta