Quality in an Agile Software Development Environment Training Course

Professional Development Training Course Outline

Category	Quality Assurance and ISO standards	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today?ÇÖs fast-paced digital economy, organizations must embrace agility to stay competitive and deliver customer-centric solutions. Quality in an Agile software development Environment Training Course ensures that high-performing teams achieve faster delivery, continuous improvement, and sustainable growth. This course introduces professionals to cutting-edge quality practices, integrating Agile methodologies with quality assurance, DevOps alignment, automation strategies, and customer value-driven outcomes.

The training empowers participants to understand the critical role of quality across Agile lifecycles, focusing on test-driven development, continuous integration, performance monitoring, and user experience enhancement. With real-world case studies, the program highlights industry best practices, trending tools, and collaborative frameworks that help enterprises achieve higher ROI, minimize risks, and enhance overall customer satisfaction in a dynamic software ecosystem.

Programme Curriculum

Quality in an Agile Software Development Environment Training Course

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Course Objectives

1. Understand the fundamentals of Agile software development and its impact on quality delivery.
2. Apply trending Agile quality assurance techniques in real-world projects.
3. Explore the role of automation in ensuring continuous integration and delivery.
4. Master test-driven and behavior-driven development approaches.
5. Integrate DevOps principles with Agile quality practices for improved collaboration.
6. Learn to manage technical debt while ensuring consistent code quality.
7. Utilize Agile metrics and KPIs for data-driven decision-making.
8. Enhance customer experience through value-driven quality management.
9. Apply modern performance testing and monitoring strategies.
10. Strengthen risk management and compliance in Agile projects.
11. Implement continuous improvement cycles using retrospectives and feedback loops.
12. Develop practical skills through case studies from leading tech organizations.
13. Foster a culture of collaboration and shared ownership of quality.

Organizational Benefits

1. Accelerated time-to-market with improved quality standards.
2. Enhanced customer satisfaction through value-driven product delivery.
3. Improved collaboration across cross-functional Agile teams.
4. Reduced costs through early defect detection and automation.
5. Increased ROI from Agile quality strategies.
6. Strengthened brand reputation through reliable software products.
7. Efficient risk management with compliance-ready practices.
8. Scalable Agile frameworks that adapt to organizational growth.
9. Enhanced employee skills leading to higher productivity.
10. Sustainable innovation driven by continuous improvement.

Target Audiences

1. Software Developers
2. Quality Assurance Engineers
3. Agile Project Managers
4. Scrum Masters
5. Product Owners
6. DevOps Engineers
7. Business Analysts
8. IT Managers

Course Duration: 5 days

Course Modules

Module 1: Introduction to Agile and Quality Practices

- Understanding Agile principles and quality focus
- Role of quality in Agile frameworks
- Agile manifesto and continuous improvement culture
- Importance of customer-centric development
- Key Agile metrics for quality assurance
- Case study: Quality foundations in Agile transformations

Module 2: Agile Quality Assurance Techniques

- Test-driven development and its benefits
- Behavior-driven development practices
- Acceptance test-driven development overview
- Continuous testing strategies
- Automated test frameworks in Agile projects
- Case study: Applying TDD and BDD in a real-world project

Module 3: Automation in Agile Quality

- Role of automation in Agile testing
- Continuous integration and continuous delivery pipelines
- Automated regression testing approaches
- Tool selection for Agile automation
- Overcoming automation challenges
- Case study: Automation in CI/CD pipelines

Module 4: DevOps Integration for Quality

- Understanding DevOps principles in Agile
- Collaboration between QA and DevOps teams
- Infrastructure as code and quality benefits
- Continuous monitoring and feedback loops
- Improving deployment frequency with quality focus
- Case study: DevOps-enabled quality improvements

Module 5: Managing Technical Debt and Code Quality

- Definition and impact of technical debt
- Practices to reduce and manage technical debt
- Code review strategies in Agile teams
- Refactoring for continuous improvement
- Role of static code analysis
- Case study: Reducing technical debt in a large enterprise

Module 6: Agile Metrics and Quality KPIs

- Importance of measurable metrics
- Defect density and test coverage metrics
- Velocity and sprint burndown charts for quality
- Customer satisfaction as a quality measure
- Using dashboards for Agile metrics
- Case study: Leveraging KPIs for Agile quality decisions

Module 7: Customer Experience and Agile Quality

- Aligning product development with customer needs
- Measuring customer satisfaction in Agile projects
- Feedback-driven development practices
- Improving user experience through testing
- Building customer trust through quality delivery
- Case study: Enhancing customer experience via Agile QA

Module 8: Continuous Improvement and Agile Retrospectives

- Role of retrospectives in Agile teams
- Identifying improvement areas for quality
- Building a culture of continuous learning
- Effective facilitation of retrospectives
- Feedback loops for quality enhancements
- Case study: Continuous improvement in Agile organizations

Training Methodology

- Interactive instructor-led sessions
- Hands-on exercises and simulations
- Real-world case studies and group discussions
- Practical application of Agile quality tools
- Continuous assessments and feedback loops

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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