



## Getting from Fragile to Agile

- Learn the most common causes of agile project failure and how to avoid them or mitigate their effects
- Reset and get back to the basics of Agile and re-learn the Agile formulas for success
- Explore agile software development approaches and the importance of agile principles
- Understand differences between agile and traditional methodologies
- Discover the major steps required to successfully plan and execute an agile software project
- Explore the leading agile development best practices

Many organizations today are discovering that their Agile processes are not meeting their delivery expectations. Ineffective and inefficient requirements definition and management, ineffective project management, poor project communication, software development issues, and non-agile testing can all contribute to agile project failure. Whether you are new to agile or are an experienced agilist working on an agile project that is failing and you want to learn how to build project success or get your agile projects back on track, this is the course for you.

In addition to walking you through the fundamental agile techniques and methodologies, this course helps you understand how to balance competitive pressures and customer demands with incremental software delivery that meets your quality objectives while delivering value to your customers and stakeholders. Learn how Agile practices will reduce software product release schedules and drive your organization to seek fresh new approaches to building software. Avoid the common mistakes of agile adopters and address the common agile myths:

- Believing that agile says you don't need to document your software
- Forgetting about doing unit testing as part of the development process
- Adopting Scrum without adopting appropriate agile development practices as well
- Believing that agile means you don't need to do architecture or design when building software

*Getting from Fragile to Agile* presents a roadmap for how to get started with agile along with practical advice. It introduces you to agile software development concepts and teaches you how to make them work. You will learn what agile is all about, why agile works, and how to effectively plan and develop software using agile principles. A running case study allows you to apply the techniques you are learning as you go through the course. Key concepts that will be introduced and discussed include:

- Agile requirements definition and management
- Agile communication and collaboration
- Agile planning and (Scrum-based) project management
- Agile rapid software delivery using Extreme Programming, Agile Testing, and DevOps infrastructure automation

Bring your specific issues and problems to the training course for discussion as well.

*This class is recommended both as a prerequisite for those seeking ICAgile's Agile Testing certifications and for those practitioners who recognize the need to focus on "being" agile in addition to "doing" agile.*

## Who Should Attend

The audience includes software developers, software test professionals, project managers, business analysts, product managers, and line of business owners. No specific prerequisites are assumed; however, attendees are expected to have some software experience.

## Course Completion and Certification

Upon completion of this course the attendee will be certified by the International Consortium for Agile (ICAgile) and awarded the ICAgile Certified Professional (ICP) designation. Additionally, the certified attendees will be listed on the ICAgile website, indicating their Professional designation and that they have completed all the learning objectives associated with the Fundamentals of Agile track. The ICAgile certification fee is included with your registration for your convenience.

## About ICAgile

The International Consortium for Agile's goal is to foster thinking and learning around agile methods, skills, and tools. The ICAgile, working with experts and organizations across agile development specialties, has captured specific learning objectives for the different agile development paths and put them on the learning roadmap. For more information visit: [www.icagile.com](http://www.icagile.com).

## 2-Day Course Outline

### Introduction to Agile

- What is agile?
- Benefits of agile
- Why does agile work?
- Myths about agile
- Who is using agile?

### Agile Software Process

- Overall agile development process
- Agile best practices

### Agile Planning

- Introduction to Scrum
- The planning process
  - Backlogs
  - Initial release planning
  - Iterative sprint planning
- Roles during initial planning
- Building good user stories
- Estimating work
- Building a release plan

### Agile Development

- Introduction to extreme programming (XP)
- Iterative development process
- Key meetings and activities
  - Sprint kickoff
  - Daily Scrums
  - Sprint planning
  - User acceptance testing and reviews
  - Retrospectives
- Roles During Sprints

- Agile Development Best Practices
  - Team-based design
  - Pair programming
  - Continuous integration
  - Test-driven development (TDD) and unit testing
  - Refactoring
- Agile Testing Best Practices
  - Agile testing framework
  - Acceptance test-driven development (ATDD)
  - Exploratory testing
  - Agile test automation

## Wrap Up Discussion

### Class Daily Schedule

Sign-In/Registration 7:30–8:30am

Morning Session 8:30am–12:00pm

Lunch 12:00–1:00pm

Afternoon Session 1:00–5:00pm

*Times represent the typical daily schedule. Please confirm your schedule at registration.*



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