



## Agile Fundamentals

**Course #:** AG-100      **Duration:** 1 day

### Prerequisites

None.

### Details

This course gives attendees a broad overview of Agile, focusing on the popular Scrum framework as an example of how Agile can transform organizational projects. You will learn key agile principles, the end-to-end agile process, and how and why agile works to consider and discuss possible implementation with your organization.

### Software Needed

None.

### Outline

#### Agile Fundamentals

- **Getting Started with Agile**
  - Traditional Project Management (Waterfall)
  - What is Agile?
  - Iterative and Incremental Development Strategies
  - Differences Between Waterfall and Agile
  - The History of Agile
  - The Agile Manifesto
  - Frameworks / Methodologies of Agile
- **Using the Scrum Framework**
  - The Scrum Framework
  - Scrum Roles
    - Product Owner
    - Scrum Master
    - Scrum Team
      - History of Chickens and Pigs
      - Scrum Team Breakdown
  - Stakeholders
    - Stakeholder Identification
    - Stakeholder Responsibilities
    - Types of Stakeholders
    - Factors Affecting Stakeholder Involvement

- Customers
- The Scrum Process
- What is the Product Backlog?
- User Stories
- Sprint Planning
- Sprint Characteristics
- Closure
- **Managing Projects with Scrum**
  - Estimating User Stories
  - Ideal Days
  - Story Pointing
  - Product Backlog - Estimating Stories Example
  - Product Poker
  - Daily Scrum Meeting
  - Burn-down Chart
  - Progress Charts
  - Metrics for Tracking
  - Best Practices to Manage Scrum
  - Product Owner: Proxy or Facilitator?
- **Success Factors to Implement Agile**
  - Resolve Risks in Agile Projects
  - Integration Issues
  - Hardening Issues
  - Blocking Issues
  - Myths about Agile
  - Agile and CMMI
  - Agile and PMBOK
  - Micro-Management with Agile
  - Estimation Challenges
  - Growth Opportunities
  - Scrum of Scrums
  - The Benefits of Agile