

Scrum Agile Master Certified (SAMC)

Course Outline

1. Introduction

- Overview of Agile concepts and relevance to modern project management

2. Agile Overview

- **AGILE Defined:** What Agile is
- **Why use Agile?:** Benefits of Agile over traditional methods
- **Adaptive Project Management:** Flexibility in changing environments
- **The Agile Manifesto & Principles:** Core guiding philosophies of Agile
- **Declaration of Interdependence:** Relationship between Agile teams
- **What's Changed?:** Key differences between Agile and traditional approaches
- **Difference between Waterfall and Agile:** Contrasting two popular methodologies

3. Domains of Agile Practices

- **Value-Driven Delivery:** Delivering value incrementally
- **Adaptive Planning:** Flexibility in planning and adjusting
- **Team Performance Practices:** Optimizing team collaboration
- **Agile Tools and Artifacts:** Common Agile tools (e.g., burndown charts, user stories)
- **Participatory Decision Models:** Involvement of all team members in decisions
- **Stakeholder Engagement:** Continuous communication with stakeholders
- **Continuous Improvement:** Iterative process improvement (Kaizen)

4. Lean Kanban Software Development

- **Introduction and Core Values:** Overview of Lean and its principles in software development

5. Understanding Lean Software Development

- **Introduction, Core Values, and Practices:** Lean's focus on waste reduction and value creation
- **Iterative Development:** Building in small, continuous increments

6. Understanding Kanban

- **Kanban in Software Development:** How Kanban is applied
- **Kanban Values, Practices, and Definition:** Key principles and implementation

7. Scrum

- **Overview, History, and Principles of Scrum:** Basics and evolution
- **Why Use Scrum?:** Scrum's effectiveness in project management
- **Scalability of Scrum:** Scaling Scrum for larger projects
- **Scrum Principles, Aspects, and Processes:** Key elements and lifecycle
- **Scrum and Kanban:** A comparison of both frameworks

8. Extreme Programming (XP)

- **Core Values, Roles, and Practices:** Emphasis on engineering excellence
- **XP Release and Artifacts:** The delivery and documentation cycle
- **Adopting XP and XP Events:** Implementation and regular meetings
- **Iteration:** Short, continuous improvement cycles

9. Test-Driven Development

- Agile testing methodology where tests guide development

10. DSDM (Dynamic Systems Development Method)

- **Core Values, Roles, and Practices:** Rapid development and frequent delivery

11. Crystal

- **Core Values, Roles, Practices, and Process:** A lightweight Agile framework for small teams

12. Feature-Driven Development (FDD)

- **Core Values, Roles, Practices, and Process:** Agile methodology focused on delivering client-valued features

13. Comparison of Agile Methods

- Overview of differences between various Agile methodologies (Scrum, Kanban, XP, etc.)

14. Best Fit Analysis Tool

- Tool for determining the most appropriate Agile methodology for a project