

V1.0

Training Program on

Agile Software Development Life Cycle

WWW.4P3

Agile Software Development Life Cycle (SDLC) Training Program

Software development life cycle (SDLC) is a phenomenon to design, develop and, test high-quality software. The primary aim of SDLC is to produce high-quality software that fulfills the customer requirement within time and cost estimates.

Agile Software Development Life Cycle (Agile SDLC) is the combination of both iterative and incremental process models. It focuses on process adaptability and customer satisfaction through the rapid delivery of working software products. Agile SDLC breaks down the product into small incremental builds. These builds are provided in iterations.

What is Agile SDLC?

The Agile SDLC development method focuses on collaborative decision-making, customer satisfaction, and development over multiple short cycles or sprints, rather than a top-down process with a single series of stages. Your teams work in multiple cycles, which typically last between two and four weeks.

Developers use an iterative approach in order to focus on the most important features at any given moment, rather than going “according to plan.”

Advantages of Agile SDLC

- Project is divided into short and transparent iterations.
- It has a flexible change process.
- It minimizes the risk of software development.
- Quick release of the first product version.
- The correctness of functional requirements is implemented into the development process.
- Customer can see the result and understand whether he/she is satisfied with it or not.

Audience

The Agile SDLC training is a 3-days course designed for:

- Project Managers - to upskill their understanding of the latest & best practices.
- Product Owners - To understand Agile better for value-driven delivery.
- Executives & Business Managers - To understand SDLC agile & hybrid models for gaining value from software solutions
- Teams & software developers for best practices in software development and transitioning to Agile.
- Business Analysts - To enhance requirement-gathering skills and use better tools for productivity

Learning Objectives:

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Training Outline:

Day-1

1. Agile values and principles
2. Agile project management frameworks
 - 2.1. Scrum delivery model
 - 2.2. Kanban
 - 2.3. Hybrid approach
 - 2.4. Alignment of SDLC with an Agile approach
3. Planning:
 - 3.1. Backlog grooming and prioritization
 - 3.2. Sprint planning and goal setting
 - 3.3. Capacity planning and resource allocation
 - 3.4. Task and time management

Day-2

4. Tracking
 - 4.1. Burn-down charts and burndown metrics
 - 4.2. Velocity tracking and estimation accuracy
 - 4.3. Sprint retrospective and continuous improvement
 - 4.4. Defect tracking and resolution

5. Reporting:

- 5.1. Daily stand-ups and progress reports
- 5.2. Sprint review and demonstration of work
- 5.3. Agile dashboard and status reporting
- 5.4. Release planning and management

6. Continuous integration and delivery

Day-3

7. Pair programming and code reviews

8. Agile estimation and prioritization

9. Managing and communicating change

10. Collaboration between development and product teams

11. Case Studies and Discussions with Practical Solutions