

# INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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## *Agile course*

### **Introduction to Agile**

- Evolution of Agile methodologies
- Agile Manifesto and principles
- Benefits of Agile over traditional project management approaches

### **Scrum Framework**

- Overview of Scrum roles: Scrum Master, Product Owner, Development Team
- Scrum events: Sprint, Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective
- Artifacts: Product Backlog, Sprint Backlog, Increment

### **Kanban Methodology**

- Principles and practices of Kanban
- Visualizing work with Kanban boards
- Managing flow, limiting work in progress (WIP), and continuous improvement

### **Lean Principles**

- Overview of Lean thinking and principles
- Applying Lean concepts to Agile practices
- Eliminating waste and optimizing value delivery

## **Extreme Programming (XP)**

- Core practices of XP: Pair Programming, Test-Driven Development (TDD), Continuous Integration, Refactoring
- Role of XP in Agile software development

## **Agile Planning and Estimation**

- Agile planning fundamentals: User stories, Epics, Themes
- Techniques for Agile estimation (Planning Poker, Relative Sizing)
- Release planning and iteration planning

## **Agile Metrics and Reporting**

- Key Agile metrics: Velocity, Burndown charts, Cycle time, Lead time
- Using metrics for tracking progress and predicting delivery

## **Collaboration and Communication**

- Facilitating collaboration within Agile teams
- Effective communication practices in Agile projects
- Distributed Agile teams: Tools and best practices

## **Agile Team Dynamics**

- Characteristics of high-performing Agile teams
- Roles and responsibilities in Agile teams
- Handling conflicts and fostering team motivation

## **Scaling Agile**

- Scaling frameworks: SAFe (Scaled Agile Framework), LeSS (Large-Scale Scrum), Nexus
- Challenges and strategies for scaling Agile across large organizations

## **Agile Tools and Techniques**

- Overview of Agile project management tools (Jira, Trello, etc.)
- Using Agile boards, backlog management, and reporting tools effectively

## **Agile Adoption and Transformation**

- Strategies for Agile adoption in organizations
- Overcoming resistance to change
- Leading Agile transformation initiatives

## **Agile Testing and Quality Assurance**

- Agile testing principles and practices
- Test-driven development (TDD) and continuous integration
- Ensuring quality throughout Agile projects

## **Continuous Improvement and Retrospectives**

- Conducting effective Sprint retrospectives
- Implementing feedback and driving continuous improvement
- Kaizen mindset and Agile maturity models

## **Case Studies and Real-World Applications**

- Examining successful Agile implementations
- Learning from industry case studies and best practices