INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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KANBAN METHODOLOGY TRAINING

1: Introduction to Kanban

1 History and Origins of Kanban

- Origin in manufacturing
- Evolution into software development and knowledge work

• 2 Principles of Kanban

- Start with what you do now
- Agree to pursue incremental, evolutionary change
- Respect the current process, roles, responsibilities, and titles

• 3 Benefits of Kanban

- Increased efficiency
- Better visibility and transparency
- Enhanced collaboration and communication

2: Core Concepts and Practices

1 Visualize the Workflow

- Creating a Kanban board
- Workflow stages and columns

2 Limit Work in Progress (WIP)

- Understanding WIP limits
- Implementing WIP limits in your Kanban board

3 Manage Flow

- Identifying bottlenecks
- Improving flow efficiency

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4 Make Process Policies Explicit

- Defining policies and rules
- Communicating policies to the team

5 Implement Feedback Loops

- Daily stand-ups
- Retrospectives and reviews

3: Setting Up a Kanban System

• 1 Designing Your Kanban Board

- Basic board setup
- Advanced board configurations

2 Defining Work Item Types

- User stories
- Tasks and defects

3 Creating and Managing Backlogs

- Prioritizing work
- Refining the backlog
- 4: Metrics and Measurement

1 Key Kanban Metrics

- Cycle time
- Lead time
- Throughput

2 Cumulative Flow Diagrams (CFD)

- Interpreting CFD
- Using CFD for improvement

• 3 Flow Efficiency

- Calculating flow efficiency
- Improving flow efficiency

5: Kanban in Practice

- 1 Kanban in Software Development
 - Kanban for Agile teams
 - Integrating Kanban with Scrum (Scrumban)
- 2 Kanban in Operations and Support
 - o Service delivery with Kanban
 - Incident management and resolution

• 3 Kanban in Project Management

- Project tracking and reporting
- Managing dependencies and risks

6: Scaling Kanban

- 1 Kanban at Scale
 - Implementing Kanban in large organizations
 - Managing multiple teams and projects
- 2 Enterprise Kanban Frameworks
 - o Portfolio Kanban
 - Flight levels in Kanban

7: Continuous Improvement

- 1 Kaizen and Kanban
 - Principles of Kaizen
 - Applying continuous improvement in Kanban
- 2 Tools and Techniques for Continuous Improvement
 - Root cause analysis
 - Process mapping
- 3 Sustaining Kanban Practices
 - Building a culture of continuous improvement
 - Overcoming resistance to change

8: Case Studies and Real-world Applications

1 Case Studies

- Successful Kanban implementations
- Lessons learned from real-world examples

2 Best Practices and Pitfalls

- Common challenges in Kanban adoption
- Strategies for successful implementation

ADVANCE TOPICS :-

1: Review of Kanban Fundamentals

1 Recap of Kanban Principles and Practices

- Evolution from Lean principles
- Core Kanban practices (visualization, WIP limits, flow management)

2 Case Study Review

- Analysis of successful Kanban implementations
- Lessons learned and challenges faced

2: Advanced Visualization Techniques

1 Multi-team and Portfolio Level Boards

- Scaling Kanban for multiple teams
- Visualizing dependencies and interactions

2 Swimlane Designs

- Horizontal and vertical swimlanes
- Using swimlanes for differentiating work types or teams

3: Advanced WIP Limit Strategies;-

1 Dynamic WIP Limits

- Adjusting WIP limits based on team capacity and demand
- Simulation exercises for determining optimal WIP limits

2 WIP Limit Policies

- Defining policies for handling WIP limit breaches
- Experimenting with different policy configurations

4: Flow Metrics and Analytics

• 1 Advanced Flow Metrics

- Cycle time distribution analysis
- Monte Carlo simulations for forecasting

• 2 Predictability and Variability Analysis

- Using Little's Law in Kanban
- Analyzing flow data for process improvement

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5: Kanban for Portfolio and Enterprise Level

• 1 Portfolio Kanban

- Visualizing and managing multiple projects or initiatives
- Prioritization techniques across portfolios

2 Enterprise Services Planning (ESP)

- Integrating Kanban with strategic planning
- Flight levels and governance in large organizations

6: Advanced Lean Principles in Kanban

- 1 Value Stream Mapping (VSM)
 - Identifying and eliminating waste
 - Mapping value streams for process optimization
- 2 Kaizen and Continuous Improvement
 - Advanced techniques for continuous improvement
 - Using A3 problem-solving in Kanban contexts

7: Kanban and DevOps Integration

- 1 Continuous Delivery with Kanban
 - o Implementing Kanban in CI/CD pipelines
 - Visualizing and managing releases
- 2 Kanban Metrics for DevOps
 - Measuring and optimizing lead time in DevOps environments
 - Integrating feedback loops between development and operations

8: Advanced Topics in Lean Kanban

- 1 Lean Kanban vs. Agile Kanban
 - Contrasting principles and practices
 - Choosing the right approach for different contexts
- 2 Flow-Based Portfolio Management
 - Managing capacity and demand at portfolio level
 - Flow-based funding and financial models

9: Advanced Case Studies and Applications

• 1 Complex Systems and Kanban

- Applying Kanban in non-software domains (e.g., healthcare, manufacturing)
- o Case studies of Kanban in complex environments

• 2 International Kanban Adoption

- Cultural considerations in global Kanban implementations
- Case studies from different industries and regions