KANBAN SYSTEMS & WORKFLOW OPTIMIZATION



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Introduction

Kanban Systems & Workflow Optimization examines how teams visualise work, limit what they start, and improve the flow of value end to end. This Training Course covers Kanban Method principles, board design, and flow measurement. Participants study the six Kanban practices, work-in-progress limits, classes of service, Little's Law, cumulative flow diagrams, value stream mapping, and the STATIK approach to system design. Furthermore, the programme connects design to improvement through board design labs, flow analysis, and simulation workshops. As a result, delegates leave able to build a Kanban system that fits their work and improve it with data.

Kanban Systems & Workflow Optimization Course Objectives

- Define the Kanban Method and its six core practices.
- Map the current value stream and identify waste.
- Design boards with explicit policies and clear stages.
- Set and tune work-in-progress limits deliberately.
- Apply classes of service and expedite rules.
- Measure flow using lead time, cycle time, and throughput.
- Apply Little's Law and queueing logic to real systems.
- Read cumulative flow diagrams and detect bottlenecks.
- Use STATIK to design a Kanban system for a workflow.
- Run flow reviews and drive continuous improvement.

Course Methodology

- Interactive workshops using real workflow and board files.

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- Value stream mapping and STATIK design labs.
- Board design and policy definition exercises.
- Flow metrics calculation and analysis workshops.
- Kanban simulation with work-in-progress limit tuning.
- Action planning that converts each session into a workplace commitment.

Who Should Take This Course

- Team leads and delivery managers.
- Scrum Masters and agile coaches.
- Operations and service managers.
- Process improvement specialists.
- PMO and performance analysts.
- Product owners and business analysts.
- Anyone managing a recurring workflow.

Kanban Systems & Workflow Optimization Course Outlines

Day 1: Kanban Foundations and Principles

- Origins of Kanban in manufacturing and knowledge work.
- The Kanban Method and its six core practices.
- Start with what you do now and pursue incremental change.
- Visualising work, policies, and flow.
- The difference between Kanban and Scrum.
- Ethics, transparency, and honest flow reporting.

- Building the Kanban adoption framework.

Day 2: Mapping Work and Value Streams

- Value stream mapping for knowledge work.
- Identifying value-adding and non-value-adding steps.
- The eight wastes in service and knowledge work.
- Demand analysis and arrival rate patterns.
- Work item types and their characteristics.
- The STATIK approach to system design.
- Documenting the current state map.

Day 3: Designing Boards and Policies

- Board structure: stages, columns, and swimlanes.
- Explicit policies and definition of workflow.
- Work-in-progress limits by stage and per person.
- Pull systems and replenishment triggers.
- Classes of service and expedite lanes.
- Blocked work, waiting states, and blocker policies.
- Building the board and policy documentation.

Day 4: Flow Metrics and Analysis

- Lead time, cycle time, and throughput measurement.
- Little's Law and queueing theory application.
- Flow efficiency and wait state analysis.
- Cumulative flow diagrams and bottleneck detection.

- Cycle time distribution and predictability.
- Percentiles and service level expectations.
- Building the flow metrics pack.

Day 5: Flow Improvement and Sustainment

- Flow review cadence and measurement practice.
- Experiment design for flow improvement.
- Work-in-progress limit tuning and its effects.
- Handling variability, interruptions, and unplanned work.
- Forecasts with Monte Carlo and throughput data.
- Scaling Kanban across teams and portfolios.
- Personal action plan and continuous improvement.

Conclusion

By successfully completing Kanban Systems & Workflow Optimization, participants will have acquired a practical command of Kanban practices, value stream mapping, board and policy design, flow measurement, and improvement method. They will know how to visualise work honestly, set limits that expose problems rather than hide them, and read flow data to find real bottlenecks. In addition, the course prepares delegates to sustain improvement through regular flow reviews and forecasting. As a result, they return to work ready to build and refine a Kanban system for real workflows. Gentex Training Center delivers this Training Course with a practical, standards-based approach.

LEARN BOLD. **LEAD BEYOND**
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FAQs for the Kanban Systems & Workflow Optimization course

Q1 What is the "Kanban Systems & Workflow Optimization" course about?

It is a five-day programme on visualising work, limiting work in progress, and improving flow. It covers the Kanban Method's six practices, value stream mapping, board and policy design, work-in-progress limits, classes of service, flow metrics, Little's Law, cumulative flow diagrams, STATIK system design, and flow improvement.

Q2 What are the key benefits of the "Kanban Systems & Workflow Optimization" course?

Participants gain the ability to see where work actually stalls, set work-in-progress limits that expose problems rather than hide them, and read flow data to find real bottlenecks instead of guessing. They also learn to forecast delivery with throughput data, which makes commitments more reliable.

Q3 What skills will I gain from the "Kanban Systems & Workflow Optimization" course?

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Workflow mapping with value stream mapping, waste identification, demand analysis, and work item classification, board and policy design with stage structure, explicit policies, work-in-progress limits, pull systems, classes of service, and blocker policies, flow measurement with lead time, cycle time, throughput, Little's Law, flow efficiency, and cumulative flow diagrams, and flow improvement with bottleneck detection, cycle time distribution analysis, percentile-based service expectations, work-in-progress tuning, Monte Carlo forecasting, and scaling Kanban.

Q4 What tools, methods, or standards are covered in the "Kanban Systems & Workflow Optimization" course?

The course covers Kanban origins in manufacturing and knowledge work, the Kanban Method's six core practices, the start-with-what-you-do-now principle and incremental change, work, policy and flow visualisation, Kanban versus Scrum comparison, ethics, transparency and honest flow reporting, value stream mapping for knowledge work, value-adding and non-value-adding step identification, the eight wastes in service and knowledge work, demand analysis and arrival rate patterns, work item type analysis, the STATIK approach to system design, board structure across stages, columns and swimlanes, explicit policy and definition of workflow writing, work-in-progress limit setting by stage and per person, pull systems and replenishment triggers, classes of service and expedite lanes, blocked work, waiting states and blocker policy design, lead time, cycle time and throughput measurement, Little's Law and queueing theory application, flow efficiency and wait state analysis, cumulative flow diagram construction and bottleneck detection, cycle time distribution and predictability analysis, percentile and service level expectation setting, flow review cadence and measurement practice, experiment design for flow improvement, work-in-progress limit tuning and its effects, variability, interruption and unplanned work handling, Monte Carlo and throughput-based forecasting, and Kanban scaling across teams and portfolios.

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Q5 How is the "Kanban Systems & Workflow Optimization" course applied in real-world practice?

Delegates apply it through value stream maps, current state maps, waste analyses, demand profiles, work item type catalogues, board designs, policy statements, work-in-progress limits, pull and replenishment plans, classes of service definitions, blocker policies, flow metric reports, lead time and cycle time charts, cumulative flow diagrams, flow efficiency analyses, cycle time distributions, service level expectations, flow review agendas, improvement experiments, Monte Carlo forecasts, scaling blueprints, and improvement backlogs. They also use it to run flow reviews and to coach teams on interpreting their own delivery data.