

KMC Course Outline

What you will learn

The Kanban Manager with AI Certified (KMC) course is designed for professionals seeking in-depth knowledge of Kanban principles, roles, artifacts, and processes. This certification equips individuals with practical skills to implement and manage Kanban effectively, ensuring strategic alignment, enhanced collaboration, and measurable performance tracking across teams and organizations.

The courseware and preparation tools required for the certification exam will be available online on Kanbanstudy.com. An online proctored exam will be conducted at the end of the course.

Kanban Manager with AI Certified Certification classroom/virtual trainings or E-learning course are also offered by Kanbanstudy™ approved Authorized Training Partners (A.T.P.s). All trainers are highly experienced and accredited by Kanbanstudy™. Course fee includes the certification exam fee. Participants will be awarded 'Kanban Essentials with AI Certified' certificate from Kanbanstudy™ on successfully passing the exam.

The aim of the KMC course is to:

- Build a solid foundation in Kanban management principles to confidently lead empirical, iterative, and flow-based work practices.
- Design, optimize, and govern Kanban workflows for clarity, transparency, and predictable flow.
- Manage Kanban roles and responsibilities, emphasizing leadership in coordination, facilitation, prioritization, and improvement.
- Use Kanban metrics and reports to evaluate performance, identify bottlenecks, manage risks, and make data-driven decisions.
- Strengthen team and stakeholder collaboration through Kanban cadences, feedback loops, and digital tools.
- Set up and scale Kanban implementations using structured workflows, backlogs, policies, KPIs, and AI-enabled platforms.
- Execute and continuously improve Kanban practices to deliver consistent value and refine team processes.
- Foster a culture of continuous improvement through retrospectives, improvement actions, and adaptive leadership.
- Prepare participants for the KMC certification exam by mastering KBOK™ concepts, artifacts, metrics, and workflows.

Audience Profile

Anyone looking to lead and manage Kanban teams by mastering Kanban Principles, Roles, Metrics, Cadences, Lean Kanban, and Aligning Kanban with business objectives like OKRs.

Prerequisites

There is no formal prerequisite for this certification. However, it is preferable to complete the Kanban Essentials with AI Certified (KEC) certification before applying for the Kanban Manager with AI Certified certification. It is also highly recommended to attend a KMC classroom training provided by a Kanbanstudy™ approved Authorized Training Partner (A.T.P.) Authorized Training Partner (A.T.P.).

What is included

- High quality videos, study guides, chapter tests, and case study
- High quality hands-on training using role-plays and case-studies
- Course fee includes certification exam fee
- Complimentary copy of the KBOK™ Guide

Examination Format

- Multiple choice questions
- 100 questions per exam
- One mark awarded for each correct answer
- No negative marking for incorrect answers
- 120 minutes duration
- Online, unproctored

Course Outcomes

By the end of this course, participants will be able to:

- Explain the Foundations of Kanban
 - Describe the origin and evolution of Kanban and identify the industries and contexts where it is most effectively applied.
 - Articulate the core benefits of Kanban in improving workflow transparency, efficiency, predictability, and collaboration.
 - Distinguish the KBOK™ Guide from other Kanban books or bodies of knowledge and explain its unique role, structure, and purpose.
- Apply Kanban Principles to Real-World Workflows
 - Explain how empirical process control, iterative development, and incremental evolution shape adaptive workflow management.
 - Apply value-based prioritization, self-organization, and visualization to improve clarity and flow within teams.
 - Evaluate how collaborative leadership influences decision-making and continuous improvement within a Kanban environment.
- Identify and Use Kanban Roles and Artifacts Effectively

- Define the responsibilities of key Kanban roles (Product Owner, Kanban Manager, Kanban Team Members, and Stakeholders).
- Explain how roles translate within digital Kanban tools or SaaS platforms.
- Create and manage essential Kanban artifacts such as tasks, task groups, workflows, backlogs, and Kanban boards.
- Use Kanban Metrics and Reports to Drive Performance
 - Interpret key Kanban metrics (e.g., cycle time, lead time, throughput, WIP) and explain their impact on decision-making.
 - Select and apply Kanban reports (e.g., cumulative flow diagrams, workflow analytics) to monitor performance and identify bottlenecks.
- Facilitate Kanban Cadences and Collaborative Practices
 - Conduct essential Kanban cadences including Planning/Replenishment, Daily Stand-ups, Completed Work Item Reviews, Retrospectives, and Risk/Issue Reviews.
 - Utilize appropriate forms, escalation paths, and reporting channels to enhance collaboration across teams and stakeholders.
 - Leverage IT-enabled collaboration tools to streamline communication and coordination.
- Set Up a Kanban Implementation from the Ground Up
 - Form a Kanban team using appropriate inputs, tools, and selection criteria.
 - Optimize workflows by analyzing existing processes, visualizing work, and identifying improvement opportunities.
 - Build or refine a Kanban backlog, establish workflow stages, and define key metrics needed for effective team performance.
- Create a Complete Kanban Plan for an Initiative or Organization
 - Evaluate inputs such as existing team structures, stakeholders, backlogs, workflows, and organizational goals.
 - Use planning tools—including role analysis, workload management, and decision-making tools—to identify the optimal Kanban team and workflow design.
 - Produce finalized outputs including workflows, backlogs, boards, agreed metrics, Kanban policies, KPIs, and stakeholder mappings.
- Execute Kanban Processes to Deliver Work Efficiently
 - Manage and deliver work items using prioritization, work assignment, estimation, dependency analysis, and issue resolution techniques.
 - Maintain and evolve Kanban artifacts during execution (boards, workflows, backlogs, metrics, KPIs).
 - Produce releases, approvals, and Kanban reports that reflect actual progress and performance.
- Enhance Kanban Performance Through Continuous Improvement
 - Conduct structured retrospectives to identify improvement actions based on metrics, KPIs, completed work items, incidents, and feedback.
 - Update workflows, boards, backlogs, and documentation to reflect newly learned insights.
 - Build a culture of continuous learning that encourages experimentation and sustained improvement of the Kanban system.

Course Methodology

- We promise a highly engaging course that ensures high retention of concepts and theories.
- Students are encouraged to work through the concepts rather than just listen to them—this provides better internalization and retention.
- Students work through a case study to simulate product development using the Kanban Framework.

Course Outline

1. Introduction to Kanban

- Kanban Origin
- Kanban Application Areas
- Benefits of Kanban
- Why use KBOK™ vs. other Kanban Books or Bodies of Knowledge
- Purpose of the KBOK™ Guide
- Framework of the KBOK™ Guide

2. Introduction to Kanban Principles

- Empirical Process Control
- Iterative or Incremental Development
- Collaborative Leadership
- Value-based Prioritization
- Self-Organization
- Visualization

3. Kanban Roles and Artifacts

- Kanban Team
 - Product Owner
 - Kanban Manager
 - Kanban Team Members
- Stakeholders
- Roles and Responsibilities in Digital Kanban Tools or SaaS Platforms
- Kanban Artifacts
 - Tasks and Task Groups
 - Kanban Workflows
 - Kanban Backlog
 - Kanban Boards

4. Kanban Metrics and Reports

- Introduction to Kanban Reports and Metrics
- Key Kanban Metrics
- Key Kanban Reports

5. Kanban Cadences and Collaboration

- Introduction to Kanban Cadences and Collaboration
- Kanban Cadences
 - Planning Meeting and Replenishment Meeting
 - Kanban Team Meeting or Daily Stand-up Meeting
 - Completed Work Item Review Meeting
 - Retrospective Meeting
 - Risk and Issue Review Meeting
- Kanban Collaboration
 - Forms
 - Escalations
 - Reports
 - IT-enabled Collaboration

6. Set-up Kanban Implementation

- Introduction to Set-up
- Form Kanban Team
 - Inputs - Case for Kanban*, Existing/Current Team Structure and Roles*, Organization or Workspace Admin
 - Tools - Team Selection Meeting*, AI-enabled Digital Kanban Tool,
 - Outputs - identified Kanban Team*, Stakeholders*
- Optimize Workflows
 - Inputs - Kanban Team*, Existing Workflow, Existing Work Backlog, Existing Metrics
 - Tools - Expert Guidance*, Existing Documentation, Visualization Techniques, AI-enabled Digital Kanban Tool
 - Outputs - Kanban Workflow*, Kanban Backlog*, Agreed Metrics*

7. Plan

- Introduction to Plan
- Form Kanban Team
 - Inputs - Product Owner*, Existing Team Structure and Roles*, Organization or Workspace Admin, Senior Management, Trial Initiative, Organization rollout
 - Tools - Team Selection Meeting*, Role Analysis Tools, Workload Management Tools, Collaboration and Decision-Making Tools, Team Selection Criteria, AI-enabled Digital Kanban Tool
 - Outputs - Identified Kanban Team*
- Optimize Workflows and Determine Stakeholders
 - Inputs - Kanban Team*, Existing Workflows, Existing Backlog, Existing Boards, Existing Metrics, Existing Stakeholders

- Tools - Expert Guidance*, Review of Existing Documentation, Visualization Techniques , AI-enabled Digital Kanban Tool
- Outputs - Finalized Kanban Workflows*, Finalized Kanban Backlog*, Finalized Kanban Boards* , Agreed Metrics*, Identified Stakeholders*, Kanban Policies, Key Performance Indicators

8. Execute

- Introduction to Execute
- Get Work Done
 - Inputs - Kanban Team*, Kanban Backlog*, Kanban Workflows*, Kanban Board*, Requirements*, Upcoming Work Items*, Kanban Metrics, Kanban KPIs, Escalations, Forms, Kanban Policies
 - Tools - Work Assignment*, Prioritization Techniques, Task Estimation Tools, Dependency Determination, Resolution for Issues/Blockers, Stakeholder Interactions, AI-enabled Digital Kanban Tool
 - Outputs - Completed Work Items*, Updated Kanban Workflows*, Updated Kanban Backlog*, Updated Kanban Boards*, Updated Kanban Metrics*, Updated Kanban KPIs*, Releases, Approvals, Kanban Reports

9. Enhance

- Enhance – Introduction
- Retrospect and Improve
 - Inputs - Kanban Team*, Kanban Backlog*, Kanban Workflows*, Kanban Board*, Completed Work Items*, Kanban Metrics*, Kanban KPIs*, Kanban Reports*, Kanban Policies, Feedback, Incidents or Issues
 - Tools - Retrospective Meetings*, AI-enabled Digital Kanban Tool
 - Outputs - Improvement Actions*, Updated Kanban Workflows, Updated Kanban Backlogs, Updated Kanban Boards, Learnings and Documentation

About Kanbanstudy™

Kanbanstudy™ is a brand of VMEdU Inc., a global leader in the professional training and certification industry. VMEdU Inc. has facilitated the training of over 5,000,000 students across 7,500+ corporations in 150+ countries through its global network of 2,000+ training providers. VMEdU also owns several other popular brands, including SCRUMstudy™—a global accreditation body for Scrum and Agile certifications, 6sigmastudy™—a global accreditation body for Six Sigma certifications, and OKRstudy™—a global accreditation body for OKR certifications.

Kanbanstudy™ is the global accreditation body for Kanban certifications. It has authored the KBOK™ Guide, a comprehensive resource that provides guidelines for the successful implementation of the Kanban framework in managing business workflows and processes.

Important certifications provided by Kanbanstudy™ include:

- Kanban Essentials with AI Certified (KEC)
- Kanban Professional with AI Certified (KPC)
- Kanban Manager with AI Certified (KMC)
- Kanban Product Owner with AI Certified (KPOC)
- Kanban with Scrum, DevOps, and OKR Certified (KSDOC)

Kanbanstudy™ Certification Hierarchy

Kanbanstudy™ certified professionals help organizations optimize workflow management, resulting in improved efficiency, faster delivery times, and increased ROI. They possess in-depth knowledge of Kanban principles and can proactively address challenges related to practical implementation.

Though there are no mandatory prerequisites for most Kanbanstudy™ certifications, it is recommended to understand the hierarchy structure. The diagram below shows the preferred and optional certifications for progressing to the next level.

