

KEC Course Outline

What you will learn

The Kanban Essentials with AI Certified (KEC) course is designed for individuals and teams who want to understand the foundational principles of Kanban and its application in workflow management. The course provides clear insights into how Kanban enhances efficiency, reduces bottlenecks, and enables continuous delivery across industries such as software development, manufacturing, and services.

Courseware and preparation tools are provided online through Kanbanstudy.com. At the end of the course, participants will take an online, unproctored exam.

The course is delivered through classroom, virtual, or e-learning formats by Kanbanstudy™ Approved Training Partners (A.T.P.s). All trainers are accredited by Kanbanstudy™. The certification exam fee is included in the course fee. On successful completion, participants will be awarded the Kanban Essentials with AI Certified (KEC) certificate by Kanbanstudy™.

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Course Objectives

The KEC course aims to:

- Provide an understanding of the core principles within the Kanban framework.
- Equip participants with the knowledge to apply Kanban basics effectively in real-world scenarios.
- Demonstrate how Kanban improves workflow visualization, efficiency, flexibility, and continuous delivery.
- Prepare participants to successfully complete the KEC certification exam.

Audience Profile

The course is ideal for:

- Individuals and teams seeking to learn Kanban fundamentals.

- Anyone working in or interacting with a Kanban team.
- Professionals interested in understanding how Kanban can optimize workflows across different industries.

The KEC course and exam are free for anyone interested, though highly recommended for teams and organizations adopting Kanban.

Prerequisites

No formal prerequisites are required. However, it is recommended to complete the Kanban Essentials with AI Certified (KEC) training before advancing to other Kanbanstudy™ certifications. Taking the free KEC training provided by Kanbanstudy™ or its Approved Training Partners is strongly encouraged.

What is included

- High-quality videos, study guides, and practice tests
- Case studies and role-play exercises for hands-on learning
- Complimentary copy of the KBOK® Guide
- Certification exam fee included

Examination Format

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

Course Outcomes

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

- Explain the origins and applications of Kanban, and analyze its benefits for visualization, efficiency, adaptability, and continuous improvement.
- Differentiate KBOK™ from other Kanban references by describing its purpose, structure, and framework.
- Apply Kanban principles such as transparency, inspection, adaptation, collaboration, self-organization, and visualization in real-world work environments.
- Evaluate the role of collaborative leadership in Kanban and its impact on decision-making and stakeholder engagement.
- Implement value-based prioritization to ensure delivery of the highest-value work.
- Assess how self-organization drives ownership, accountability, and continuous learning in Kanban teams.

- Design and utilize Kanban boards to visualize workflows, dependencies, and progress effectively.
- Identify and describe key Kanban roles (Product Owner, Kanban Manager, team members, stakeholders) and responsibilities.
- Work with Kanban artifacts such as tasks, task groups, workflows, backlogs, and boards to manage work transparently.
- Utilize visualization techniques to design Kanban boards that clearly represent workflows, dependencies, and progress for effective communication and decision-making.
- Identify and describe Kanban roles and responsibilities, including Product Owner, Kanban Manager, team members, and stakeholders, as well as how these roles are supported in digital Kanban tools or SaaS platforms.
- Explain and work with Kanban artifacts, such as tasks, task groups, workflows, backlogs, and boards, to effectively manage work items and improve transparency.

Course Methodology

- Highly engaging and interactive delivery to ensure retention of key concepts.
- Emphasis on experiential learning through exercises and discussions.
- Case study-based simulation to practice applying Kanban principles in a project environment.

Course Outline

1. Introduction

- Kanban Origin
- Kanban Application Areas
- Benefits of Kanban
 - Workflow Visualization and Management
 - Efficiency and Productivity
 - Flexibility, Adaptability, and Scalability
 - Continuous Improvement and Quality
- Why use KBOK™ vs. other Kanban references
- Purpose of the KBOK™ Guide
- KBOK™ Framework
 - Kanban Principles
 - Kanban Roles and Artifacts
 - Kanban Metrics and Reports
 - Kanban Cadences and Collaboration
 - Kanban Processes

2. PRINCIPLES

- Empirical Process Control

- Transparency
 - Inspection
 - Adaptation
 - Summary
- Iterative or Incremental Development
 - What It Means
 - How It Works in Kanban
 - Benefits in Kanban
 - Summary
- Collaborative Leadership
 - What Is Collaborative Leadership?
 - How Collaborative Leadership Manifests in Kanban
 - Why It Matters in Kanban
 - Summary
- Value-based Prioritization
 - What Is Value-based Prioritization?
 - How Kanban Supports Value-Based Prioritization
 - Why Value-based Prioritization Matters
 - Summary
- Self-Organization
 - What Is Self-Organization?
 - How Kanban Supports Self-Organization
 - Why Self-Organization Matters
 - Summary
- Visualization
 - Why Visualization Matters
 - How Kanban Implements Visualization
 - Benefits of Visualization in Kanban
 - Summary

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

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.

