

KANBAN

KANBAN ESSENTIALS PROFESSIONAL CERTIFICATE (KEPC™) EDITION 2020



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Kanban Essentials Professional Certificate (KEPC™)

Syllabus V082020

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Introduction

Kanban is a technique used to give work instructions to customers through cards. These cards are made as per each customer requirement with the goal of controlling the progress and be able to have a product or service of good quality.

Kanban Essentials helps particularly to coordinate the production of products and services. It also helps to adapt to different variations of the production of products and services to identify areas of improvement.

Become a Kanban Essentials Professional! This course will take you through the Kanban history, the 5 Core Properties, lean principles, Scrum, waterfall vs agile and more.

Learning Objectives

- Analyze, understand and apply the Kanban technique.
- Learn the theoretical concepts to develop a Kanban.
- Practice the tools that Kanban has available.

Certification Exam

This study program has an exam in which the candidate must obtain a score to obtain the Kanban Essentials Professional Certificate (KEPC™) certification.

- Format: Multiple choice.
- Questions: 40.
- Language: English/Spanish/Portuguese.
- Pass Score: 24/40 or 60 %.
- Duration: 60 minutes Maximum.
- Open book: No.
- Delivery: This examination is available Online.
- Supervised: it will be at the Partner's discretion.

Certification Eligibility

This certification is appropriate for anyone who is interested in becoming a Kanban professional.

Content

Introducción

- Lean Manufacturing
- Lean
- Lean Principles
- Agile
- JIT
- Kaizen
- Lean Thinking
- Scrum
- Waterfall vs Agile
- Kanban (Development)
- Bad Reasons to Choose Kanban

History

- Developed by Toyota in the 1940's
- Designed to Match Inventory to Demand, not Supply
- Relies on Improved Communication
- Generates Less Quality Failure
- Increases Production
- History
- 1962 to 2001
- Toyota's Six Rules
- Kanban
- The Core Practices of Kanban

Five Main Properties Of Kanban

- Manage the Workflow
- Limit the Work Underway
- Visualize the Workflow
- Define the Process
- Improve as a Team

Theory Of Restrictions

- Constraints Exist by Nature in Any System
- Identifying Constraints Allows You to Make Decisions About Them
- Exploiting Constraints Can Improve Efficiency
- All Other Decisions Hinge Upon Constraint Decisions
- Loop

What is Kanban?

- A Scheduling System That Allows for Just in Time Delivery
- An Inventory Control System
- A Way to Improve Productivity in an Organization
- A System to Use in Many Frameworks

Value Flow Map

- Identify Where You Start
- Identify Production Requirements (Finished Product)
- Define the Steps in Between
- Value Stream Maps Change by Nature

Implementing Kanban

- Card Walls
- Pulls and Pushes
- Workflows
- Queues and Buffers
- Cadences
- Bottlenecks

Metrics In Kanban

- Kanban Metrics
- Tracking Work
- Cumulative Flow Design
- Lead Time
- Trends
- Throughput

Optimizing Your Kanban

- Scaling Kanban
- Three Types of Improvement Opportunities
- Estimations
- Class of Service
- Service Level Agreements
- Policies
- Agile Software Development
- Resources
- Bottleneck
- What's wrong with the current system?
- Eliminate Waste
- Software Development Patterns Mashed Together
- Visual Management
- Blocker
- Task Switching

Process

Kanban as Flow

Definition of Finished / Definition of Fact (DoD)

How does Kanban work?

Principles

Other Uses

Four Key Practices

Cycle Time

Lead Time

Scrumban

WIP Limits

Scrum - Kanban

Agile and Lean Principles

3 Rules

Kanban

Work In Progress (WIP)

WIP

Design of a Card