

# Kanban Essentials Professional Certificate (KEPC™)(KEPC)

## ID KEPC Prix sur demande Durée 1 jour

#### A qui s'adresse cette formation

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

#### **Pré-requis**

There are no formal prerequisites for this certification.

#### **Objectifs**

- · Work Item types
- Card walls
- Pull and push
- Workflow
- WIP limits (Limit work in progress)
- Queues and buffers
- Cadences
- Bottlenecks
- Issues and blocked items.

#### Contenu

#### Introduction:

- · 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 in improved communication
- Generates less quality failure

- Increase 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

- · Constrains exist by nature in any system
- · Identifying constrains can improve efficiency
- · 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**

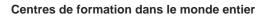
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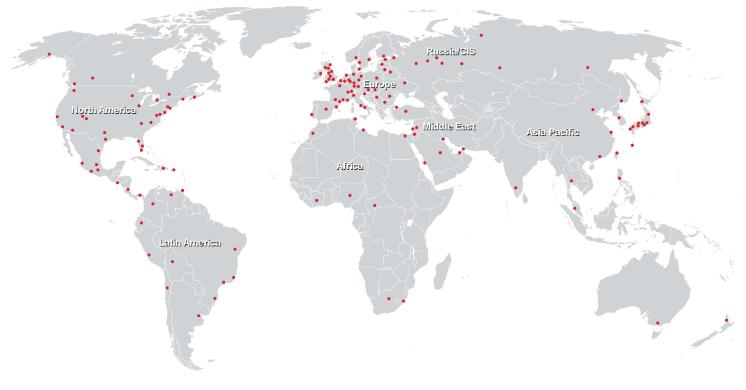
- Kanban metrics
- Tracking work
- Cumulative flow design
- Lead time
- Trends
- Throughput

# **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

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