الاسم :

منه الله خالد فوزي عبد الخالق.

السكشن:

Sec7

الماده:

Software Engineer2

Agile Method

# **What is Agile Method?-**

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster, agile team delivers work in small, but consumable, increments. Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly.

- Types of Agile Methods:-

Extreme Programming(XP)\*

Adaptive SW Development.\*

Crystal Methods.\*

KANBAN.\*

Scrum.\*

Lean.\*

We will take about KANBAN

Method :-

Definition.

Principle.

Value.

Roles.

Definition:- -

The Kanban Method is a means to design, manage, and improve flow systems for knowledge work. The method also allows organizations to start with their existing workflow and drive evolutionary change. They can do this by visualizing their flow of work, limit work in progress (WIP) and stop starting and start finishing.

The Kanban Method gets its name from the use of kanban – visual signaling mechanisms to control work in progress for intangible work products.

## **-Principles**:-

### **Change Management Principles**

Kanban is structured to address the human tendency to resist change.

* **Start with what you do now** – Understand current processes as they are actually practiced and respect existing roles, responsibilities and job titles.
* **Agree to pursue improvement through evolutionary change**
* **Encourage acts of leadership at every level**

### **Service Delivery Principles**

These principles acknowledge that organizations are a collection of interdependent services, and to place the focus on the work, not the people doing the work.

* Understand and focus on your customers’ needs and expectations
* Manage the work; let people self-organize around it
* Evolve policies to improve customer and business outcomes

## **Values**:-

Teams applying Kanban to improve the services they deliver embrace the following values:

**Transparency** – sharing information openly using clear and straightforward language improves the flow of business value.

**Balance**– different aspects, viewpoints, and capabilities must be balanced in order to achieve effectiveness.

**Collaboration** – Kanban was created to improve the way people work together.

**Customer Focus** – Kanban systems aim to optimize the flow of value to customers that are external from the system but may be internal or external to the organization in which the system exists.

**Flow** – Work is a continuous or episodic flow of value.

**Leadership** – Leadership (the ability to inspire others to act via example, words, and reflection) is needed at all levels in order to realize continuous improvement and deliver value.

**Understanding** – Individual and organizational self-knowledge of the starting point is necessary to move forward and improve.

**Agreement** – Everyone involved with a system are committed to improvement and agree to jointly move toward goals while respecting and accommodating differences of opinion and approach.

**Respect** – Value, understand, and show consideration for people.

## **Roles**:-

Given Kanban’s approach to start with your existing process and evolve it, there are no roles explicitly called for when adopting Kanban.  Use the roles you currently have on your team.

There are two roles that have emerged in practice that serve particular purposes.  It’s highly likely that these functions are filled by someone in an existing role as mentioned below.

**Service Request Manager**

Understands the needs and expectations of customers, and facilitates the selection and ordering of work items at the Replenishment Meeting.  This function is often filled by a product manager, [product owner](https://www.agilealliance.org/glossary/product-owner/), or service manager.

**Service Delivery Manager**

Responsible for the flow of work to deliver select items to customers.  Facilitates the Kanban Meeting and Delivery Planning.  Other names for this function include flow manager, delivery manager, or flow master.