Using Kanban to Improve Team Performance

# KANBAN EXPLAINED



- Discuss Fundamental Rules of the Kanban Board
- Explore how can Kanban identify and reduce waste
- Examine How Kanban teams operate
- Learn to Design and Implement a Kanban board
- Understand Kanban Metrics



### Kanban Benefits

- Kanban takes a lean thinking approach to improve processes
- Helps identify wait, waste, and bottlenecks
- The Kanban model helps improves predictability and productivity
- It improves lead time which increases customers satisfaction



- Kanban was originally a "just in time" stock fulfillment model in grocery stores, using bins of food to reduce waste of perishable goods
- The technique was applied Toyota completed a study of in the 1940's to better understand the evolving concept of marketplace demand
- Brought to the United States in the 70's by W. Edwards Deming, who helped apply it to a variety of manufacturing processes and eventually led to the Systems Thinking field of study



#### Kanban Basics

- Translated from Japanese, Kanban roughly translates to "Visual Sign Board"
- Work is pulled as capacity permits, rather than being pushed when requested by customer
- Each column on a Kanban represents a process step that all work requires to completed



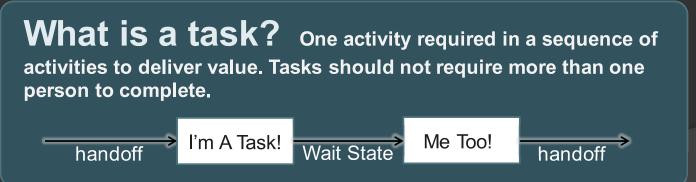
#### Kanban: Tool or Team?

- A Kanban board is a tool used by teams to manage the flow of work
- A Kanban team does not work in iterations, but constantly refines and prioritizes work
- The Scrum Master for a team using Kanban as an Operating Model is sometimes called a Flow master



## **Defining Tasks**

- Tasks can be completed by one or more people with no internal or external dependencies
- Tasks are not steps in your process ie: Develop, Test
- Design Tasks around handoffs and dependencies





#### Kanban Columns

Look at each item below. Which are columns you might see on a Kanban, and which are not? Why? (10mins)

- Sign off
- Add database fields
- Refresh Data
- Complete
- Fix 508 Compliance Issues
- View security audit results

- Validate Email Address
- Waiting for Test
- Complete form 27B/6
- Unreleased
- Section 508 compliance
- Evaluating



- Visualize Your Work
- Limit Work In Progress
- Don't Push, Pull
- Use It, Adapt It, Improve It

