

## **KANBAN- LEARNING ACTIVITY - CHOCOLATE BAR GAME (r1.2)**

*Developed by Centre for Healthcare Innovation Project Management Office*

**Description:** This learning activity is designed to demonstrate the basic principles of Kanban and the practical application of the tool.

### **Supplies (see picture):**

- Bag(s) of Kit Kat snack size bars (20 per bag)
- 2 stackable bins (general stackable bins preferred, however, if unavailable, bins must be large enough to hold 4 bars each).
- 1 set of descriptive information cards, (please see picture 2 for front side 'picture', and picture 3 for back side 'order information').
- 1 set of 'Order' and 'Order Placed' pockets (only one shown in picture)

### **Optional:**

- Plastic sleeve to house each card
- Method to affix card to bin (For example, a screw affixed to the bin face on which plastic sleeve can be hung or, alternatively, means to prop card up in bin).

### **Demonstration:**

- Fill empty bins with quantity outlined per tag. Each bin should be sized to the quantity of Kit Kat's consumed in a typical week. Please note, the bins must not be too big, such that overfilling is not apparent. Each bin must contain the quantity used in a TYPICAL week, matching the replenishment cycle. The second bin acts as a buffer for the ATYPICAL week.
- Affix cards to bins
- Stack bins
- Instruct users to take from top bin first
- When the last bar is taken, have the user place the bottom (full bin) on top of the empty bin, remove the card from the empty bin and place the card into 'order' pocket.
- The next user will now take the Kit Kat from the top (full) bin.
- Instruct Supply Coordinator to:
  - Take the card from the 'order' pocket,
  - 'Scan' the item number,
  - 'Order' the quantity of bars as shown on card
  - Place into the 'ordered' pocket
  - Obtain Kit Kats and refill the empty bin, noting the room and address. This must be completed prior to top bin from running out. Once the bin has been refilled the coordinator must affix a card to it, whilst keeping the bin on the bottom
- Users will still take from top bin until that is empty.

### **Observations:**

- Kanban can be used to compliment solutions developed during Kaizen /5S Events.
- Kanbans can ensure stock is 'turned' to minimize expired stock.
- Kanbans are utilized to minimize excessive inventory and counting. Replenishment is demand driven and the order is determined on when bin is empty or full; there are no in-between states.

Picture 1: Chocolate Bar Game Supplies



Picture 2: Information Card Front

852

KITKAT BAR

Picture 3: Information Card Back

<b>KANBAN</b>	<b>\$0.10</b>	
Item #: <b>852</b>		
Description: <b>KIT KAT BAR</b>		
Barcode:  * 8 5 2 *		
Qty: <b>4</b>	Unit of Measure: <b>EA</b>	Storage Location: <b>1A1</b>
Room: <b>there's always room for a treat!</b>		