

# Kata Overview Webinar

## Invest NI OPEX Team



# Agenda

- \* An alternative way to look at business challenges
- Kata definitions
- Why do problems and obstacles keep coming back
- Could a different approach work scientific thinking?
- Phases of the improvement and coaching kata
- Step 1 4 Improvement kata
- Coaching kata
- Summary Improvement Kata Mind-set
- Invest NI OPEX Solutions





# An alternative way to look at Business Challenges



Old Business Challenges Mike Rother Improvement Kata & Coaching Kata



New Business Challenges



# **Kata Definitions**

### **\* The Improvement Kata (IK):**

A practical four-step model of scientific of thinking and acting, for achieving challenging goals.

### **\* The Learner:**

Could be Team Leader, Supervisor or Manager

### **\*** The Coaching Kata (CK):

Is a pattern for teaching the Improvement Kata pattern of thinking and acting.

### **\* The Coach:**

Usually someone who has direct reports to coach



### Why do Problems & Obstacles Come Back?





# Could a Different Approach Work – Scientific Thinking?





## Phases of the Improvement and Coaching Kata



## **Step 1. Understand the Direction of Challenge**





The four steps are



## **Step 2. Grasp the Current Condition**



#### **Outcome Performance** Step Outcome (1)How is the process performing over time? (Graph) metrics **Customer Demand & Planned Cycle Time** Step 2 What is the rate of demand and the desired rate of 'production'? Characteristics of the Current Process Step 3 · Make a block diagram of the work pattern. Measure exit cycles and graph fluctuation. Process · Record your bullet-point observations. metrics and characteristics **Equipment Capacity** Step 4 Are there any equipment constraints? **Optional** What are they? Necessary Number of Operators (if the process were stable) Step (5)How many people are necessary? (Calculated)

STEPS OF THE PROCESS ANALYSIS KATA



## **Step 3. Establish the Next Target Condition**



Three Elements of a Good Next Target Condition

- **1. Achieve by Date**
- 2. Desired Outcome Score
- 3. Desired Operating Pattern



# Step 4. Experiment Towards the Next Target Condition

- Focus on removing the first obstacle now!
- \* Capture your predictions and then your results from your experiment
- Then adjust based on what you
   have learned and experiment again





# **Experimenting Record Example**

	<b>EXPERIMENTING RECORD</b> Obstacle: Parts Presentation & Accuracy to Assembly Cells			Process: Parts Pickin LEARNER: John B. COACH: Scott T.			g CASE #1
	Step & Date	What do you expect?			<u>Result</u>	Observe closely	What We Learned
	<ol> <li>6-20-2017 Evaluate the picking process of the high volume parts for ABC product line.</li> </ol>	<ol> <li>20% percent of the ABC product parts drive 80% of the pickers movement. Pickers incur wasted time &amp; energy.</li> </ol>	le	-	products. F steps, 196 empty loca	were allocated to ABC Pickers traveled over 1600 total picks , 120 minutes, 16 ttions, ladder used 9 times ing for a standard pump	<ol> <li>Majority of picks allocated to the ABC family. No logical positioning of parts and inventory accuracy questionable. Excessive ladder usage</li> </ol>
	<ol> <li>6-21-2017Arrange high volume parts shelves 2 &amp;3 to avoid ladder usage.</li> </ol>	<ol> <li>The pickers will minimize the number of ladder moves by 50%.</li> </ol>	Coaching Cycle	EXPERIMEN'		aurred 3 ladders moves for rder type. 1300 steps	<ol> <li>Position of high volume parts reduced the need for ladders. Operator still moving a lot.</li> </ol>
		3. Reduction in picking steps & cycle time by at least 50%			minutes to	le time reduced from 120 62 minutes and travel duce from 1600 steps to	<ol> <li>Location of parts improved productivity and safety.</li> </ol>
	4. 6-23-2017 Monitor daily re-pick orders .	4. The number of re-pick orders into stockroom to be reduced by 75%			<ol> <li>The numbe difficult to</li> </ol>	er of past re-pick orders was find.	<ol> <li>Discovered that no accurate data was available to confirm accuracy improvement</li> </ol>



### **Case Study Observations – Picking Process**



16 Empty Locations





Ladder used 9 times



ABC Parts Difficult To Access



16,000 Steps, 196 Picks – 120 mins

COVID-19

RECOVERY



Source: Mike Rother

# **Coaching Kata**







### **Summary: The Improvement Kata Mind-set**



### Invest NI: Operational Excellence Team

### Who are we?

Business-experienced Coaches

### What do we do?

Improve the productivity, profitability & competitiveness of NI Businesses

### How do we do it?

Tailored support using training, mentoring & coaching to promote best practice and build capability within our clients' businesses to deliver quantifiable & sustainable improvement

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### Get in touch...

For more information from the Operational Excellence Team:

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