

PDCA Domino Exercise

Transformation Consulting

02.13.2020



The Importance or Routine



A QUICK EXPERIMENT

Take a moment... please cross your arms. Then re-cross them the other way.



How did it feel the second time compared to the first?



For most of us the second time feels odd. You have to consciously think about it and be more deliberate.

What would happen if you practiced folding your arms the other way every day?



It would become normal; something you can do without thinking about it.

Use Huddling to Create an Improvement Routine



The huddle revolves around 3 simple sheets of paper.

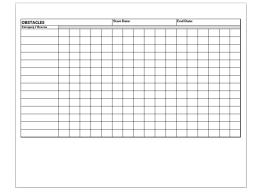
Together, these papers provide a structure for methodically working toward your challenge.

1. METRICS

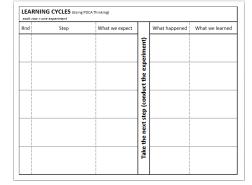
Problem Problems

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OBSTACLE S



LEARNING
CYCLES



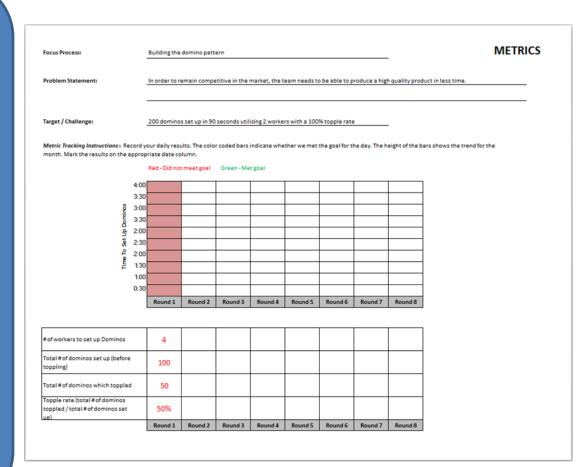
How To Use the Metrics Sheet



Good News! You've Already Done it!

The purpose of this sheet is to:

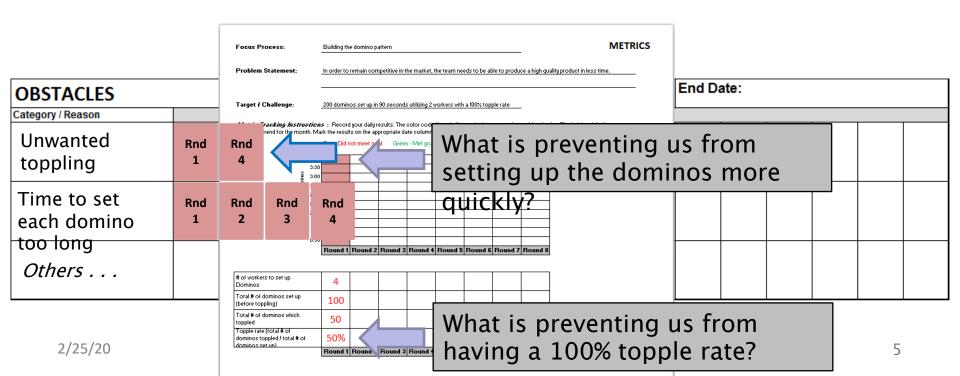
- 1. To specify the Process, the Problem,& the Challenge
- 2. To provide <u>visibility</u>
 to everyone as to
 how the process is
 performing on a daily
 basis



How to Use the Obstacles Sheet



- 1. Each round that your team doesn't hit your challenge, ask the question "what is preventing us?"
- 2. Document the answer(s) to that question along the left hand side of the "Obstacles" sheet. These are **obstacles** to achieving your challenge.
- 3. Each round that a specific obstacle occurs, color in another cell in that row and write the round # in that box.
- 4. Choose one obstacle that the group is going to focus on eliminating first.



The Learning Cycles Sheet



- 1. You've chosen an obstacle to focus on eliminating. Seek to understand what the root cause of that obstacle is.
- 2. Decide on the next step your team will try in order to reduce or eliminate the root cause of this obstacle.

 Document the step and your expectations.
- 3. Implement that step in the next domino round and then document the outcome along with your learnings.

 What you learned should influence your next step.

LEARNING CYCLES (Using PDCA Thinking) each row = one experiment										
[Rnd	Step	What we expect	ent)	What happened	What we learned					
2	Remove neckties	No Unwanted toppling	the next step the experime	Unwanted toppling due to wristwatch	All dangling accessories need to be removed					
3	Remove all dangling accessories (watches, necklaces, etc.)	 	Take t (conduct							

To Reinforce, Think of the Sheets This Way



METRICS

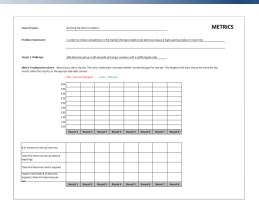


OBSTACLE S



LEARNING CYCLES

2/25/20



OBSTACLES Category / Reason					Start Date:					End Date:							
Category / Reason																	_
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Rnd	Step	What we expect		What happened	What we learned
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			Take the next step (conduct the experiment)		
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What's the process, problem, & challenge?

What's the current performance of the process?

What's preventing you from achieving the challenge?

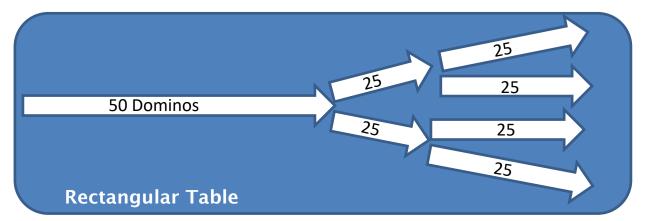
What's the next step to eliminate your selected obstacle? And...

What did you learn by taking that step?

Instructions for Round 1



- First, Number off! 1, 2, 3
- Each table will work together to build a product for our company's customers. Our product for this exercise is a completed domino pattern shown in the picture below.
- Customer Requirements & Rules:
 - 1. You must produce the pattern below with the quantities shown below
 - 2. Use as many as 4 team members for up to 4 minutes in order to produce the pattern
 - 3. At the end of the 4 minutes, count how many dominos were set up
 - 4. Next, you must topple all of the dominos by only touching the first one
 - 5. Next, gather your remaining metrics and document it on your Metrics sheet
 - 6. Return your dominos to the starting position when finished



Starting Position for Each Round



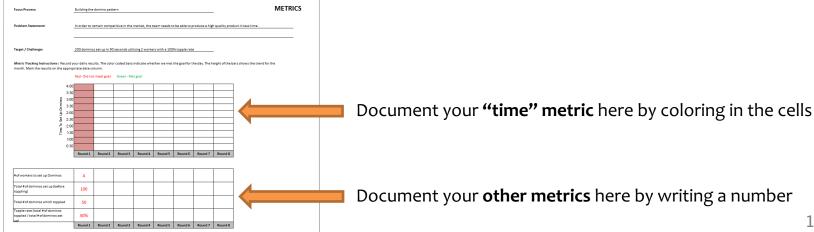
- 4 rows, with 50 dominos in each row (as seen below)
 - Must be in this exact formation, no gaps, etc.



Tracking Metrics



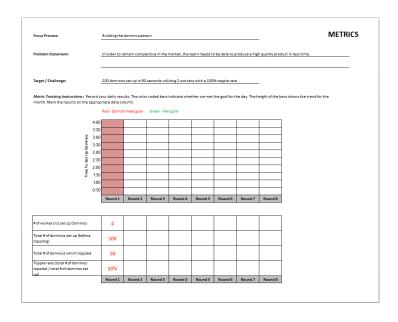
- At the end of each round, the metrics you want to gather are:
 - Time used to set up the dominos
 - # of workers
 - Total # of dominos set up (before toppling)
 - Total # of dominos which toppled
 - Topple rate (total # of dominos toppled / total # of dominos set up)
- Use the sheet in your packet labeled Metrics to document this data.
- You may want to assign one person on the team to be the metrics tracker

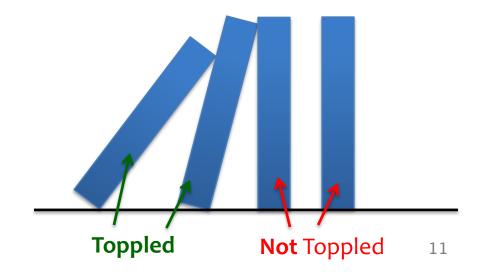


Tracking Metrics (continued)



- At the end of each round, the metrics you want to gather are:
 - # of workers
 - Total # of dominos set up (before toppling)
 - Time used to set up the dominos
 - Total # of dominos which toppled
 - Topple rate (total # of dominos toppled / total # of dominos set up)
- Use the sheet in your packet labeled Metrics to document this data





Questions?



