IMPROVEMENT PROJECT OVERVIEW

MR. POTATO HEAD ASSEMBLY

Welcome to the Mr. Potato Head factory. Our factory is currently unable to meet demand due to incorrect assembly and the length of time required to complete each product. Therefore, we are testing our assembly process to ensure that we produce a high-quality product, which results in Mr. Potato Head being assembled exactly as shown in the photo, and in a timely manner. Each team will complete 4 rounds of assembly testing and will document and record learnings.

1. FORM THE IMPROVEMENT TEAM.

Every Team Must Have at Least:	Role/Responsibility	Assigned to
1 Assembler	Attach the pieces of Mr. Potato Head to the body as shown in the photo above	
1 Timekeeper	Use timer to record the length of time it takes, in seconds, to assemble Mr. Potato Head	
1 Accuracy Inspector	Inspect the assembled Mr. Potato Head (as compared to the photo) and assign a quality score	
1-2 Recorder(s)	Document plans and outcomes on worksheet and chart pads, as instructed , including time and accuracy of assembly (run charts)	
1-2 Observer(s)	Silently observe the process and note interactions, discussions, and outcomes	

2. REVIEW SCORING.

POINTS	ASSEMBLY QUALITY
1	**One or more** pieces are not on Mr. Potato Head after timer has been stopped.
2	All pieces are on Mr. Potato Head but one or more are out of place or are not **completely** attached to the body.
3	All pieces are on Mr. Potato Head and **all** are attached and in place (**exactly** as shown in the photo).

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3. DEVELOP A PROCESS FLOW MAP OF YOUR TEAM'S ASSEMBLY PROCESS.

NOTE: Use sticky notes on a flip chart sheet.

4. PRACTICE ASSEMBLY & ESTABLISH A BASELINE.

Conduct a practice assembly round to establish a baseline.
- *Time:*
- *Quality score:*

5. SET A SMART AIM.

Our Aim Statement is:

6. IDENTIFY PROJECT MEASURES.

- 1-2 Outcome measures
- 1-2 Process measures
- 1 Balancing measure

Measure Type	Measure Description
Outcome	
Process	
Balancing	

7. DOCUMENT PDSA CYCLES.

    A.   Record Round 1 on your PDSA Tracker.

    B.   Complete the "PLAN" section of the PDSA Tracker for round 2.

    C.   Conduct Round 2 and document the Observer's Findings "DO", the results of the assembly "STUDY", and changes you'll make during the next PDSA cycle "ACT"

    D.   Repeat B-C for rounds 3 and 4.

PDSA Cycle No.	PLAN			DO	STUDY	ACT
	Description of test	**What do you predict will happen?**	**How will you measure if your test made an improvement?**	**Notes**	**Results/Key Learning**	**What will you do next? (abandon change, more testing, implement)**
1					Time: Quality:	
2					Time: Quality:	
3					Time: Quality:	
4					Time: Quality:	
5					Time: Quality:	

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8. DEVELOP RUN CHARTS

Transfer the information from all four test cycle rounds to a run chart on **one** chart pad (one on top, the other on the bottom), using the format below.

NOTE: You will need to add the y axis numbers to the "time" graph.

Time to Assemble

1	2	3	4

Quality Score

3				
2.5				
2				
1.5				
1				
0.5				
0				
	1	2	3	4

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