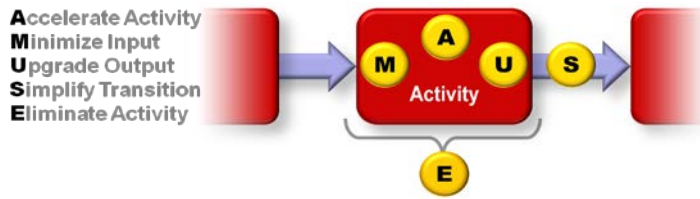


AMUSE Customer Tour Checklist

(From the New Product Blueprinting Process by The AIM Institute)



Consider this improvement if your product is a...
Material, Component, Equipment or Service

ACCELERATE ACTIVITY					
1	Train operator to eliminate wasted motions or operations (via internet, demo video...)			E	S
2	Provide faster identification of parts or ingredients (labeling, color-coding, RFID...)	M	C		
3	Increase machine speed (mixing, welding, drilling, etc.)			E	
4	Modify parts or equipment to allow for faster assembly/joining of components		C	E	
5	Improve machine display readability or accessibility (e.g. closer to operator)			E	
6	Provide faster access to data or information needed to conduct activity			E	S
7	Automate activity or key portions of activity			E	S
8	Reduce equipment breakdowns by increasing equipment durability/reliability			E	
9	Reduce equipment breakdowns via early-warning diagnostics & visual displays			E	
10	Reduce equipment breakdowns by embedding maintenance instructions and cues			E	
11	Reduce equipment downtime through easier/faster repair when breakdowns occur			E	
12	Reduce unplanned downtime via inventory control embedded in equipment or program			E	S
13	Provide training/instructions to reduce learning curve for new & temporary operators			E	S
14	Display & record data on quality & productivity to aid continuous improvement			E	S
15	Build flexibility into equipment for optimal production of many finished goods types			E	
16	Reduce maintenance downtime by decreasing preventative maintenance needed			E	
17	Modify material or component to allow for safe handling without special procedures	M	C		
18	Modify packaging so incoming components or materials can be processed more rapidly	M	C		
19	Reduce need for manual collection of data/information			E	S
20	Decrease need for keyboard data entry			E	S
21	Design special tools or fixtures to speed up a process step			E	S
22	Design activity to allow for fast set-up on product change-overs			E	S
MINIMIZE INPUT (material, energy, capital)					
1	Combine functionality of 2 or more materials/ingredients/components into 1	M	C		
2	Modify raw material so that less expensive co-materials can be used	M			
3	Modify raw material so that reduced quantities of co-materials can be used	M			
4	Modify component so that smaller, cheaper or fewer other components can be used		C		
5	Make raw material more concentrated or potent so lower quantities can be used	M			
6	Protect materials or components from damage, environmental exposure, etc.	M	C		
7	Reduce material/component inventory by optimizing for multiple product types	M	C		
8	Reduce component or part prep time via reduced packaging , pre-positioning, etc.	M	C		
9	Pre-mix or react raw materials prior to introducing to main production line	M			
10	Reduce distance raw materials/components must move before being processed	M	C		
11	Use efficient containers to reduce waste of raw materials/components	M	C		
12	Replace over-engineered equipment & processes with less capital-intensive ones			E	S
13	Redesign product or process to decrease energy input required	M	C	E	
14	Replace paper documentation with digital documentation			E	S

U	PGRADE OUTPUT (fewer defects, more end-customer benefits)				
1	Build in-process quality measurement into equipment or process to reduce defects			E	S
2	Automatically alert when defective in-process or finished product is produced			E	S
3	Reduce defects by improving raw material & component identification/labeling	M	C		
4	Design equipment to easily reprocess defective product or waste streams			E	
5	Make it easy to highlight and segregate defective in-process or finished product	M	C	E	S
6	Reduce defects by assisting operators in selecting materials, parts and data inputs	M	C	E	S
7	Reduce "twilight" material between product types on continuous production lines	M		E	
8	Reduce defective material/components on new product type start-up	M	C	E	
9	Make raw material more potent so more active ingredients can "fit" in finished formula	M			
10	Make components smaller/lighter to allow for more compact/lighter finished product		C		
11	Modify materials or components to improve the aesthetic design of finished assembly	M	C		
12	Build flexibility into process to allow for easy customization to meet customer needs	M	C	E	S
13	Monitor for defect causes to aid continuous improvement			E	S
14	Increase uniformity of finished product by reducing variability throughout process	M	C	E	S
15	Redesign product or process to reduce packaging of final product	M	C	E	
16	Add chemical/material functionality to give more functionality to finished product	M			
17	Add functionality to components to give more functionality to finished product		C		
18	Design equipment, components & materials for mistake-proof use	M	C	E	
S	IMPLIFY TRANSITION (between 2 activities)				
1	Reduce physical distance in-process product moves between process activities			E	
2	Reduce transition time required between 2 process steps			E	S
3	Use "efficient" containers to reduce waste & handling time of in-process product	M	C	E	
4	Move components or materials instead of people between process activities	M	C	E	
5	Provide cheaper, more reliable or faster transport of in-process goods between activities			E	
6	Provide inter-equipment data communication for process pacing and inventory control			E	S
7	Rearrange activities in process to increase overall process throughput rate	M	C	E	S
8	Automate data communication between process activities so they are equally paced			E	S
9	Monitor for rate-limiting activities in process to aid continuous improvement			E	S
10	Monitor for downtime events in process to aid continuous improvement			E	S
11	Divide the rate-limiting activity into faster sub-activities or off-line activities			E	S
12	Provide training in most efficient methods to handle transitions between activities			E	S
13	Eliminate or reduce storage and packaging of in-process goods	M	C	E	
14	Run 2 process activities in parallel instead of in series			E	S
15	Design equipment to be easily moved between processes or for new product runs			E	
E	ELIMINATE ACTIVITY				
1	Combine 2 activities into 1 by adding functionality to equipment or process step			E	S
2	Eliminate blending of ingredient by pre-blending raw materials	M			
3	Eliminate component assembly by providing pre-assembled sub-assemblies		C		
4	Eliminate material/component inspection by assuring quality of supplied goods	M	C		
5	Eliminate finished goods QC check by automating this in last equipment on line			E	
6	Eliminate incoming parts cleaning by providing fully cleaned components & parts		C		
7	Eliminate activates such as sanding, deburring, etc. via fully prepared incoming parts		C		
8	Redesign finished product so aesthetic steps (polishing, painting...) can be eliminated	M	C	E	S
9	Eliminate manual data entry by using bar codes, RFID, etc.	M	C	E	S