- 1. Quality is simply a products fitness for use. Its two aspects are:
 - (i) Quolity of design is a product brigh quality?
 - (:) Quality of combonity is the product consistents high quality?
- 2. (:) Prevention Costs Product / Process design, Training pusonnel, Process contol
 (::) Internal Failure Costs Scrap Revol. W. Retist, Failure Analysis
 - (iii) Appraisal Costs Product inspection & fasting, Maintaining accuracy of fist equip.
 - (: v) Externel Failure Costs Warrenty Charges, Loub !: to costs, returned gradet/material
- 3. Quality Engineering is a set of activities that work to ensure that quality characteristics are kept at desired levels, and that variability is at its minimum.
- 4. The hidden factory is the port of a plant that the customer Lossif see which deals with bad quality.
- 5. Controllable Input Variables. Burcoding, the of patents per norse, time limit on norse-potent interactions, norse shift lingth We out put variables. Correct amount of drug/dosage, Jobsides faction of their employed norses
- 6. Control charts are a form of monitoring which tracks averages in a quelity characters be with/over sample number time. They are helpful as they induste where a characteristic should be who abnormal verition and they alert uses to unsual veritor though statebally defined control limits.
- 7. Six Signa is a statistical based, data driven management approach and cts.

 quelity impowement nathodology for alimnoting defeats in a product process, or sovice.

 In short, it reduces variability to a level when defeats are unlikely. Its three

 elevants are: (i) Quality Planing Listering to the vace of your customer

 (ii) Quality Assurance Establishing a system to prove quality issues from arrising

 (iii) Quality Control & Improvement A set of speaks steps I tooks to ensure products

meet requirements or are improved continuously.

It's name refus to the quelts lead forget such that std dev (o) or voice (oz):s

8.
$$USL=2.4 \text{ mg/cm}^2$$

a) $|2.4 \text{ mg/cm}^2-3 \text{ mg/cm}^2| = 2$ for correct process

 $LSL=3.6 \text{ mg/cm}^2$
 $USL=3.6 \text{ mg/cm}^2$
 U

A. Slow processes are exposer as customs don't like marting (complaint processing),
more handling = more presented to apportunity for domega/loss, more
space his to be girn to imports, and more time has to be spent on docometation.

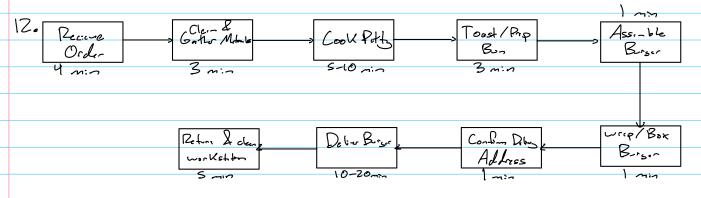
Increasing process upole of feeting results in more product value compared
to the same (or lown) process time, which results in his ner profit.

Deresing Process Cycle time mans reduces the number of items in provises
(ive, the backlog), whole incress the complete. Note. This results in more
products being produced.

Len focuses on both of tree as higher PCE in combonton with low PCT results in more value coming from more sold products

- 10. The design step is important becase it helps identify a project opportants and verify tatit is a legislanter finance. I opportuit or may lead to major improvement to a process or product. Its main objectus are to:
 - (i) last of codor vildate the braness improvement opportunity
 - (ii) Defre cribed as tome requirements
 - (iii) Documet/map processes
 - (:v) Establish projet choto & bild rum

11. Supplars	Inpts	Prouss	Output	Customer
Batcher / Plant	•	(:) Recive Cust. Order	l	Customos in-store
Bukery		(:) Gather Motors	' ^	Costone on the
Farms	Lettra, Tombo Ons	(::) Cook Pithon Gill	Siles re-enve	Debies Sources
Cheese Syples	Cheese stres	(: U) Toust & Pap Bon	Posite reptitur	Eunt organizas
, ''	Sames/Spreads	WI Assemble Bogar	l '	Other organizations
10	,	(:) Wr.p/ Bx by		Coretakes
Equipment Compay		(v:) Confor Cod. Dalis		Family Members
, , ,		(viii) Deliver Burger		Synificant Ollos
, 0		(:x) Return to clean		



Areis for improvement.

(i) Keep all motories out and clear during the work-day

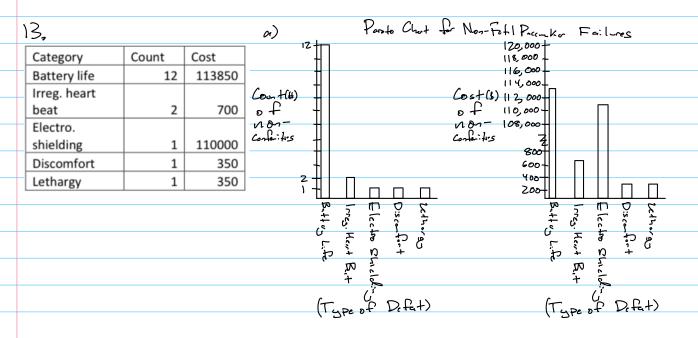
(ii) Toest Bon while Burger is cooks (founds and of grilling time)

before and better (women / Proban) product

(iii) Confirm Debing Address upon gettes order

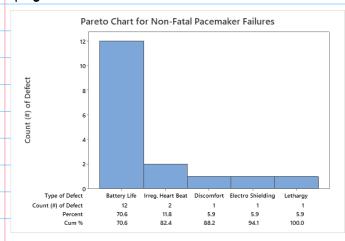
(iv) If qui for is neltiple dobring make burgers in bolk and find a good

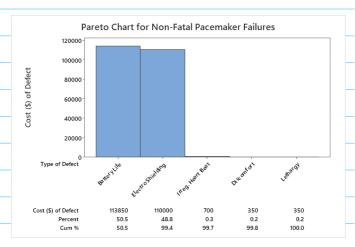
To-te to dolor all burgers to catomis quickly



I'd. while Betty Life and longular heart best are most common, the frequency of the longular heart best defect is not his menous in to outreigh the cost of an Electro-sheelding defect. As supported by the Cost us. Defect protes about, Betty Life & Electro shoulding should be the subject of a process improvement effort.







porto that shows opportunities of improvement beside of f the 80/20 rule (purto rule). This suggests a few defeat type could contribite to transjon of product rejections. And zes Porto that's a done to reduce defeats by highlighty significant cress of improvement, eliminates tradicion unsteement of the westing from ledies with but product, and material was figure to the form of rejecting but product.

17. Mesure Objective: Evoluted understand the current state of the process
Analyze Objective: Use data to begin to determine cause Reflect relationships and sources of
Vourbility.

Improve Objective: Use creative thinking & into general provides to make specific suggestions that will have the closized effections process.

Consimilar from others is a important aspect of the steps objective.

Control Objective: Complete all remains work and hand off the impound process so games in progress are relitablishitutionalized.

	9		1 -		
18.	Defect	Severity	Occurrence	Detection	RPN
	Burnt	6	2	1	12
	Too dry	4	2	2	16
	Too small	5	2	1	10
	Taste is off	9	2	4	72
	Freshness	8	3	4	96
	Number of chips is low	2	2	4	16

Froshness his to hohist RPHs and the requires te Savailax Occurrent Detalent