

VE 1 DAN VE 2 SMART GARD

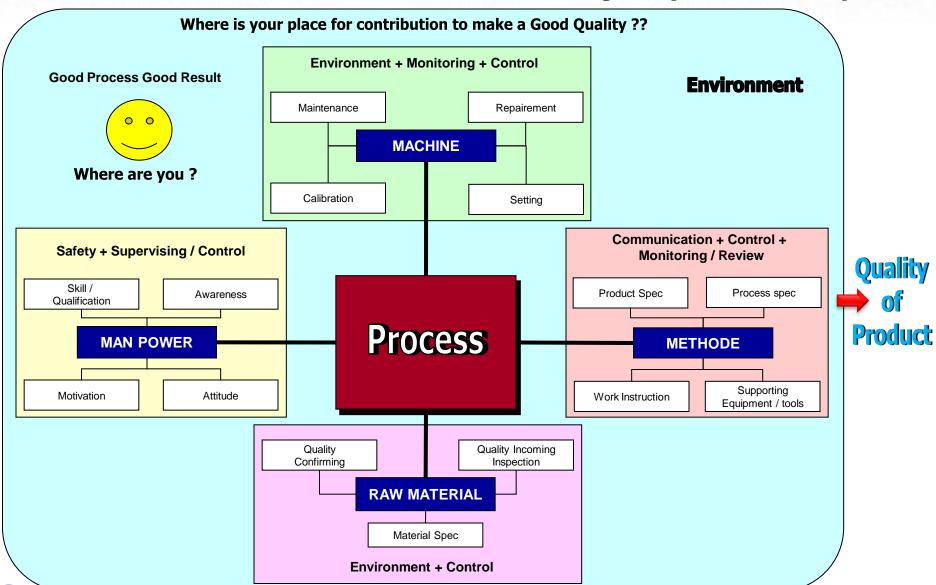
MINIMINIA PARTICIONIA



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Production Training

Good Process + Good Attitude → Good Quality + Good Output



PENGERTIAN

- Proses Control Plan adalah Sistem pengontrolan pada suatu proses yang dilakukan oleh proses Control, Operator dan
- Leader atau Supervisor.
- ☐ Manufacturing specification adalah Batasan atau spesifikasi suatu produk yang diperbolehkan dari hasil suatu proses.

Proses Condition Table adalah Batasan atau spesifikasi kondisi mesin yang diperbolehkan pada saat proses .



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	Characteristics				Methods			
		_	Special Char. Class		Evaluation/	Sai	mple	Pic
N0	Product	Process	Class	Specification/Tolera nce	Measurement Technique	Size	Freq	
1		Room Temperature		spec : 23±3°C	Self Temperature	1 point	1x/ day every 9:00 am (+/- 10 min)	PC
2		Humidity		(50 ± 10)% R.H	Hygrometer / Humidity re-corder (A)	1 point	1x/ day every 9:00 am (+/- 10 min)	PC
3		Room Dust Level		≤ 352000 counts	Dust Counter (B)	1 point	1 time/month	PC



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Ch	Characteristics				Metho	ds			
			Special	Product/ Process	Evaluation/	Samp	ole	Pic	
N0	Product	Process	Cilai. Ciass	Specification/Toleran ce	Measurement Technique	Size	Freq		
1	Appearance			Refer to Smartcard Reject Criteria for Visual (Doc. No. PO8Hb8-001) Acc =0 Rej = 1	Magnifier (5x) LED Lamp	All units (100%) top and bottom side	Every lot	Operator	
2	Lead frame Tape Orientation			Lead Frame Orientation A / B	Magnifier (5x)	All reel	Every lot	Operator	



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VC 1 & VC 2

1.APPEARANCE CHECK

Adalah pengecekkan semua produk bagian atas dan bawah (100 % check). Dokumen Reject kriteria smartcard Menjadi panduan .

A.Control Plan

Char	acteristics		Special		Metho	ods		
			Char.	Product/ Process	Evaluation/	Samp	ole	Pic
N0	Product	Process	Class	Specification/Toler ance	Measurement Technique	Size	Freq	
1	Appearance			Refer to Smartcard Reject Criteria for Visual (Doc. No. PO8Hb8-001) Acc =0 Rej = 1	Magnifier (5x) LED Lamp	All units (100%) top and bottom side	Every lot	Operator

B.Reject Kriteria Smartcard



UTAC -INDONESIA				D- Smartcard		ria	Page 7 of 17
				Number (ID) ion No.	PO8Hb8-001	7	7 of 17
	IE BOND REJ	ECT CRITERIA					
Reject Name	Description	Defect Ploture / Illustr	ation	Good unit Ploture	Equipment	JUE	OEMENT
insufficient Give filling	The glue paste that un-fills on chip side, it can be seen by any glue around each edge of chip			Art of the state o	6	Glue p	If the amount aste around f chip + \$0%
Give Coverage	The glue paste coverage area on the chip backside after die peel off test			All Die surface covere by glue paste		give po	ect if the gelwettsbillty is to located or kiside of chip c 75%.
Glue Overfilled	The glue paste that overflied on chip surface		1	St. Car Paint Ser. Sty. arts.	Microscope	spread	glue paste ing exceed o ip thickness
Shifted Bord Position	Chip placement position is shifted from the center area of die pad			Dispution is contended	Measuring Microscope	shifted	ect if Chip ng position > 0.45mm in direction
Lifted Die	Chip / die is iffed off during die bonding process			/./.\	Microscope	die is i	If any chip / ifted off from frame tape
Ohip dent	Any chip that shows dented point of chip surface	3	100	T	Microscope		nted on chip it allowed.
Unified Release agent position (For Contact type)	Release agent position should be center on sprocket hole area / not shifted	Makes Sales			Naked eye / Microscope	egent s	if release hifted equ., inal module area.

Sample check : All unit (100%) Top & Bottom

Frekuensi : Every Lot

Pic: operator



VC 1 & VC 2

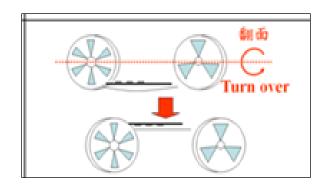
2. LEAD FRAME TAPE ORIENTATION

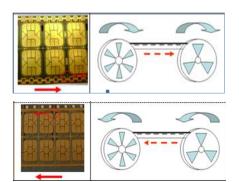
Adalah pengecekkan Orientasi Lead frame saat proses Visual

A.Control Plan

Cha	Characteristics				Metho	Methods			
	5		Special Char.	Product/ Process	Evaluation/	Samı	ple	Pic	
N0	Product	Process	Class	Specification/Tole rance	Measurement Technique	Size	Freq		
2	Lead frame Tape Orientation			Lead Frame Orientation A / B	Magnifier (5x)	All reel	Every lot	Operator	

B.Orientasi LF





Sample check : All Reel

Frekuensi : Every Lot

Pic : operator



INSPECTION DIRECTION VC1

Station	Step	Tape Derection	Working Direction
VC 1	Step -1 Check Mold body side		Metal Reel (Empty Reel) Metal Reel (Material)
VC 1	Step -2 Turn Over all reels to check contact side		



INSPECTION DIRECTION VC2

Station	Step	Tape Orientation	Working Direction	
	Step-1		Metal reel Metal Reel	
VC 2	Step-2		Metal reel Metal Reel)
2	Step-3	No Inspect, just rotate	Sticker Sticker Metal rec	el



INSPECTION DIRECTION VC2

Station	Step	Tape Orientation	Working Direction
1 /2.2	Step-1		Metal reel Metal reel
VC 2	Step-2		Sticker in the backside Metal reel Blue Reel

