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Cuatrimestre: 7°

Materia: Control total de calidad

Nombre del trabajo: CARTA X,R

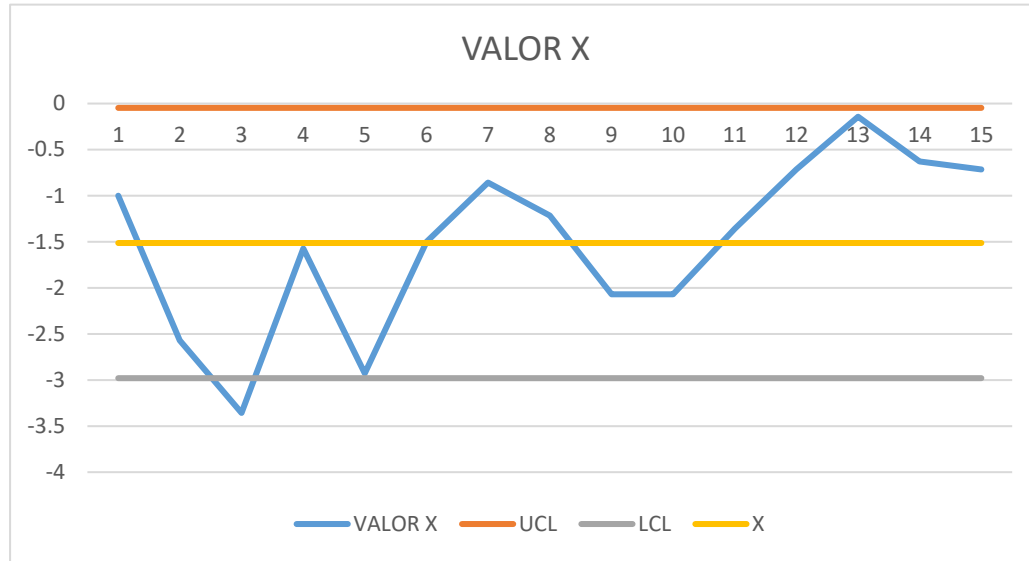
Ocosingo, Chiapas 1/12/2023

DIA	M1	M2	M3	M4	M5	M6	M7		DIA	M1	
	1	29.5	28.5	28	30	28	30	29		1	-0.5
	2	28	27	27.5	26.5	26	27	30		2	-2
	3	27.5	26	26.5	27	27	25.5	27		3	-2.5
	4	28	30	28	31	29	28	25		4	-2
	5	27	26	27	27	26.5	26	30		5	-3
	6	29	29	30	28.5	27	28	28		6	-1
	7	30	28	31	28.5	29	28.5	29		7	0
	8	31	27.5	29	28	30	29	27		8	1
	9	29	28	30	27	28	27	26.5		9	-1
	10	27	28.5	27	29	27	28	29		10	-3
	11	29	29	27	29	30	28	28.5		11	-1
	12	32	30	31	29	28	29	26		12	2
	13	28	30.5	29	29.5	31	31	30		13	-2
	14	29	29.6	31	30	29	28	29		14	-1
	15	27	30	28	31	30	29	30		15	-3

X-BAR , R CHART	
\bar{x} Chart Control Limits	
UCL = $\bar{\bar{x}} + A_2\bar{R}$	
LCL = $\bar{\bar{x}} - A_2\bar{R}$	
R Chart Control Limits	
UCL = $D_4\bar{R}$	
LCL = $D_3\bar{R}$	

A2	0.419
D4	1.9242
D3	0.0758

XBAR	VALOR X	UCL	LCL	X	
		-1	-0.04683333	-2.97983333	-1.51333333
X	-1.51333333	-2.57142857	-0.04683333	-2.97983333	-1.51333333
		-3.35714286	-0.04683333	-2.97983333	-1.51333333
UCL	-0.04683333	-1.57142857	-0.04683333	-2.97983333	-1.51333333
		-2.92857143	-0.04683333	-2.97983333	-1.51333333
LCL	-2.97983333	-1.5	-0.04683333	-2.97983333	-1.51333333
		-0.85714286	-0.04683333	-2.97983333	-1.51333333
		-1.21428571	-0.04683333	-2.97983333	-1.51333333
		-2.07142857	-0.04683333	-2.97983333	-1.51333333
R	3.5	-2.07142857	-0.04683333	-2.97983333	-1.51333333
		-1.35714286	-0.04683333	-2.97983333	-1.51333333
UCL	6.7347	-0.71428571	-0.04683333	-2.97983333	-1.51333333
		-0.14285714	-0.04683333	-2.97983333	-1.51333333
LCL	0.2653	-0.62857143	-0.04683333	-2.97983333	-1.51333333
		-0.71428571	-0.04683333	-2.97983333	-1.51333333



M2	M3	M4	M5	M6	M7	MEDIA	RANGO	VAL MAX	VAL MIN
-1.5	-2	0	-2	0	-1	-1	2	0	-2
-3	-2.5	-3.5	-4	-3	0	-2.57142857	4	0	-4
-4	-3.5	-3	-3	-4.5	-3	-3.35714286	2	-2.5	-4.5
0	-2	1	-1	-2	-5	-1.57142857	6	1	-5
-4	-3	-3	-3.5	-4	0	-2.92857143	4	0	-4
-1	0	-1.5	-3	-2	-2	-1.5	3	0	-3
-2	1	-1.5	-1	-1.5	-1	-0.85714286	3	1	-2
-2.5	-1	-2	0	-1	-3	-1.21428571	4	1	-3
-2	0	-3	-2	-3	-3.5	-2.07142857	3.5	0	-3.5
-1.5	-3	-1	-3	-2	-1	-2.07142857	2	-1	-3
-1	-3	-1	0	-2	-1.5	-1.35714286	3	0	-3
0	1	-1	-2	-1	-4	-0.71428571	6	2	-4
0.5	-1	-0.5	1	1	0	-0.14285714	3	1	-2
-0.4	1	0	-1	-2	-1	-0.62857143	3	1	-2
0	-2	1	0	-1	0	-0.71428571	4	1	-3
						-1.51333333	3.5		

VALOR R	UCL	LCL	R
2	6.7347	0.2653	3.5
4	6.7347	0.2653	3.5
2	6.7347	0.2653	3.5
6	6.7347	0.2653	3.5
4	6.7347	0.2653	3.5
3	6.7347	0.2653	3.5
3	6.7347	0.2653	3.5
4	6.7347	0.2653	3.5
3.5	6.7347	0.2653	3.5
2	6.7347	0.2653	3.5
3	6.7347	0.2653	3.5
6	6.7347	0.2653	3.5
3	6.7347	0.2653	3.5
3	6.7347	0.2653	3.5
4	6.7347	0.2653	3.5

VALOR R

