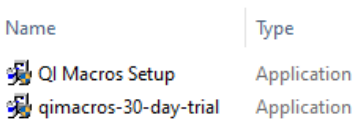
QI Macros®
Quick Start Card

Installation Made Easy!

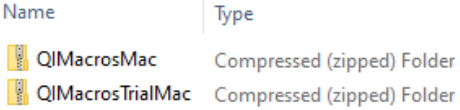
PC



Double Click on Installer & Use the Default Prompts

Open Excel – See the Menu

Mac



Double Click on Installer & Use the Default Prompts

Excel 2021-2024/Office 365

Open Excel – See the Menu

Once installed, menu will appear in Excel as such:

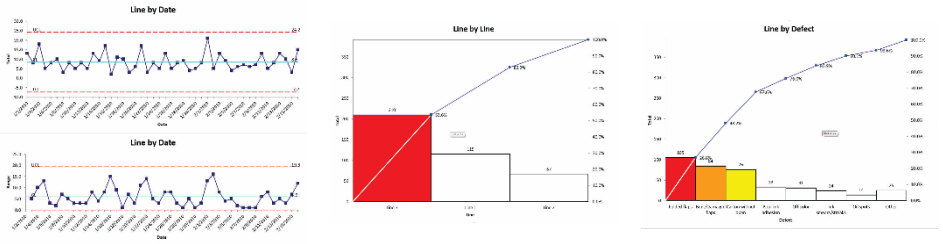
Improvement Project Wizard

	A	B	C
1	Date	Line	Defect
2	1/2/2010	Line 2	Bent/Damaged flaps
3	1/2/2010	Line 2	Carton will not open
4	1/2/2010	Line 3	Folded flaps
5	1/2/2010	Line 3	Folded flaps
6	1/2/2010	Line 3	Off color

Select Data

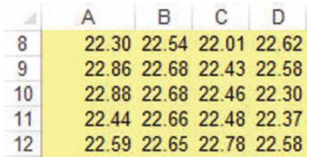
Documents/QI Macros Test Data/pivottable.xlsx

Click Menu



Results and Analysis

Control Chart Wizard

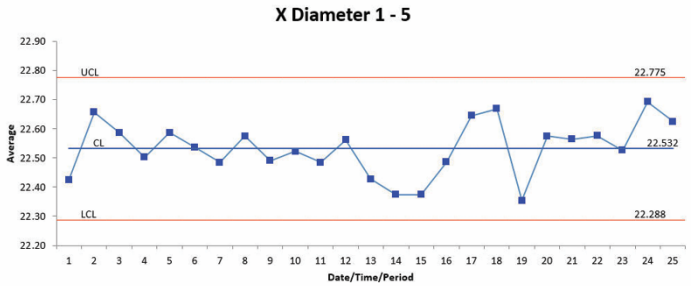


	A	B	C	D
8	22.30	22.54	22.01	22.62
9	22.86	22.68	22.43	22.58
10	22.88	22.68	22.46	22.30
11	22.44	22.66	22.48	22.37
12	22.59	22.65	22.78	22.58

Select Data

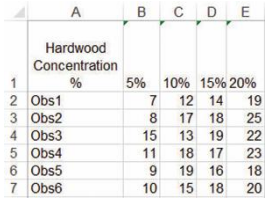
Documents/QI Macros Test Data/AIAG SPC.xlsx

Click Menu



Chart

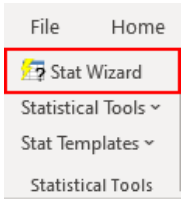
Stat Wizard



	A	B	C	D	E
1	Hardwood Concentration %	5%	10%	15%	20%
2	Obs1	7	12	14	19
3	Obs2	8	17	18	25
4	Obs3	15	13	19	22
5	Obs4	11	18	17	23
6	Obs5	9	19	16	18
7	Obs6	10	15	18	20

Select Data

Documents/QI Macros Test Data/statistical.xlsx



Click Menu

ANOVA			Reject Null Hypothesis because p < 0.05 (Means are Different)			
Source of Variation	*SS*	*df*	*MS*	*F*	*P-Value*	*F crit*
Between Groups	382.7917	3	127.5972	19.60521	0.000	3.098391
Within Groups	130.1667	20	6.508333			
Total	512.9583	23				

Results and Analysis

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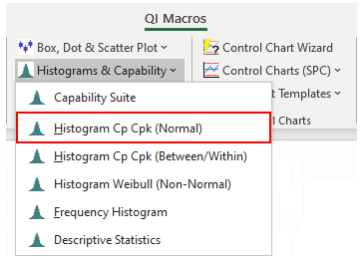
Quick Start Card

Capability Analysis

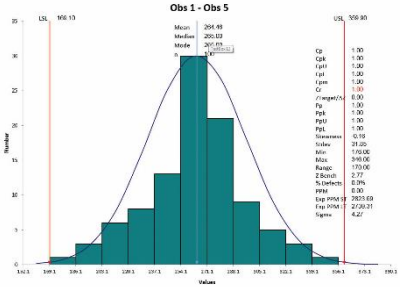
	A	B	C	D
1	Sample	Obs 1	Obs 2	Obs 3
2	S1	265	205	263
3	S2	268	260	234
4	S3	197	286	274
5	S4	267	281	265
6	S5	346	317	242

Select Data

Documents/QI Macros Test Data/pivottable.xlsx



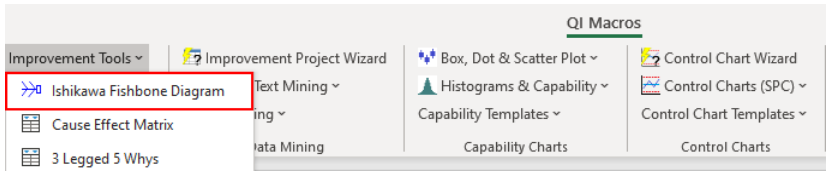
Click Menu



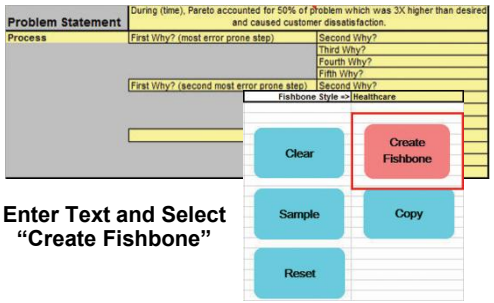
Cp	0.95
Cpk	0.95
CpU	0.95
CpL	0.95

Histogram with Cp and Cpk

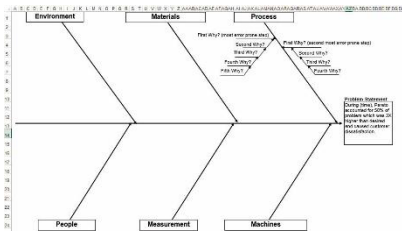
Lean Six Sigma Templates



Click Menu

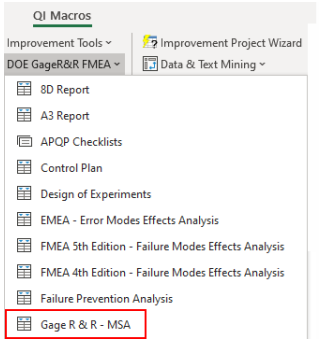


Enter Text and Select "Create Fishbone"



Ishikawa/Fishbone Template

Gage R&R Template

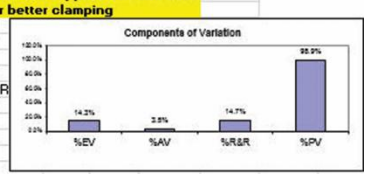


Click Menu

1	Gage R&R	http://www.aiag.org/			
2	Average & Range Method		P1	P2	P3
3	Appraiser 1	Trial 1	3.6396	3.935	3.845
4	Enter your data here-->	Trial2	3.5753	3.93	3.882
5		Trial3			
6		Trial4			
7		Trial 5			
8		Total	7.2143	7.866	7.726
9		Average-->	3.6074	3.933	3.863
10		Range1	0.0643	0.005	0.037
11	Appraiser 2	Trial 1	3.5883	3.918	3.85
12	Enter your data here-->	Trial2	3.6287	3.907	3.849
13		Trial3			
14		Trial4			
15		Trial 5			
16		Total	7.2169	7.825	7.699
17		Average-->	3.6085	3.913	3.85
18		Range2	0.0404	0.012	0.002
19	Appraiser 3	Trial 1			
20	Enter your data here-->	Trial2			
21		Trial3			
22		Trial4			
23		Trial 5			
24		Total			
25		Average-->	#N/A	#N/A	#N/A
26		Range3	#N/A	#N/A	#N/A

Measurements

		% Using	% Using	Gage system may be acceptable based on importance of application and cost			
46	AIAG - Automotive Inc	TV	Tolerance	Gage may need maintenance, redesign, or better clamping			
47	EV (Equipment Variati	0.0237					Equipment Variation (EV)
48	%EV	14.3%	39.6%	#Parts	#Trials	#Ops	% of Total Variation (TV)
49	AV: (Appraiser Variati	0.00582		3	2	2	Appraiser Variation(AV)
50	%AV	3.5%	9.7%				% of Total Variation (TV)
51	R&R (Gage Capability	0.0245					Repeatability and Reproducibility (R
52	%R&R	14.7%	40.7%	NDC	9		% of Total Variation (TV)
53	PV (Part Variation)	0.1646					Part Variation (PV)
54	%PV	98.9%	274%				% of Total Variation (TV)
55	TV (Total Variation)	0.1664					Total Variation (TV)



Gage R&R

Text Analysis

	A	B	C
1	Date	Line	Defect
2	1/2/2010	Line 2	Bent/Damaged flaps
3	1/2/2010	Line 2	Carton will not open
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5	1/2/2010	Line 3	Folded flaps
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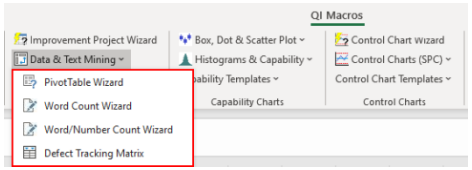
Select Data

Documents/QI Macros Test Data/Histogram.xlsx



Click Menu

	A	B	C	D	E
1	Count of Defect	Line			
2	Date	Line 1	Line 2	Line 3	Grand Total
3	1/2/2010	3	2	8	13
4	1/3/2010	2	3	3	8
5	1/4/2010	6	3	9	18
6	1/5/2010	2	1	2	5
7	1/6/2010	4	2	2	8
8	1/7/2010	4	2	4	10

	A	B	C	D	E
1	Count of Word			Count of Two-Word Phrases	
2	Word	Total		Two-Word Phrases	Total
3	flaps	189		folded flaps	105
4	folded	105		bentdamaged flaps	84
5	bentdamaged	84		carton open	76
6	open	76		flaps folded	46
7	carton	76		flaps bentdamaged	43

Chart Output