

Graphing a Statistical Process Control Chart in Excel

- 1) Enter actual data in Excel columns

The screenshot shows the Microsoft Excel interface with the 'HOME' tab selected. The ribbon includes options for Font, Clipboard, and Paragraph. The active cell is C14. The data table is as follows:

	A	B	C	D	E
1	Month	Costs			
2	1	\$ 75,432			
3	2	\$ 67,543			
4	3	\$ 98,654			
5	4	\$112,980			
6	5	\$ 89,343			
7	6	\$ 78,430			
8	7	\$ 89,545			
9	8	\$ 90,448			
10	9	\$100,430			
11	10	\$ 65,415			
12	11	\$ 76,458			
13	12	\$ 99,048			
14					
15					
16					
17					

- 2) Add columns for Upper Control Limit, Lower Control Limit and Mean values – these should be the same for all periods

Excel ribbon: FILE, HOME, INSERT, PAGE LAYOUT, FORMULAS. Font: Calibri, 11. Alignment: Center.

	A	B	C	D	E	F
1	Month	Costs	UCL	LCL	Mean	
2	1	\$ 75,432	104,934	68,626	86,780	
3	2	\$ 67,543	104,934	68,626	86,780	
4	3	\$ 98,654	104,934	68,626	86,780	
5	4	\$112,980	104,934	68,626	86,780	
6	5	\$ 89,343	104,934	68,626	86,780	
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12	11	\$ 76,458	104,934	68,626	86,780	
13	12	\$ 99,048	104,934	68,626	86,780	
14						
15						
16						

3) Create a chart by highlighting all data, clicking “Insert” and choosing the line graph option

Labor Cost Comparable Data for SPC - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW

PivotTable Recommended Table Illustrations Apps for Recommended Charts

Line Column Win/Loss Slicer Timeline

Sparklines Filters

A1 : X Y fx Month

	A	B	C	D	E	F
1	Month	Costs	UCL	LCL	Mean	
2	1	\$ 75,432	104,934	68,626	86,780	
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14						
15						
16						

2-D Line

3-D Line

More Line Charts...

4) When the chart is generated, you can modify the styles, axis labels, etc. as desired

