

c chart Examples

<u>Lot Identification</u>	<u>Sample Size (Constant)</u>	<u>Number of Defects (In the Sample)</u>
1	100	5
2	100	8
3	100	7
4	100	5
5	100	7
6	100	3
7	100	3
8	100	4
9	100	2
10	100	2
11	100	3
12	100	3
13	100	2
14	100	3
15	100	1
16	100	9
17	100	6
18	100	7
19	100	7
20	100	4
21	100	7
22	100	1
23	100	6
24	100	5
25	100	4
<u>k = 25</u>	<u>n = 100</u>	<u>∑c = 114</u>

$$k = 25 \quad \bar{c} = \frac{\text{total defectives}}{\text{no. of lots}} = \frac{114}{25} = 4.6$$

The control limits are determined by the formulas:

$$UCL_c = \bar{c} + 3\sqrt{\bar{c}} = 4.6 + 3\sqrt{4.6} = 11$$

$$LCL_c = \bar{c} - 3\sqrt{\bar{c}} = 4.6 - 3\sqrt{4.6} = -1.8 = 0$$

Attributes Control Chart Form

p np c u

PART #: Encyclopedia DESCRIPTION: SPC Checklist CHARACTERISTIC: Defects DATE: 10/1
 SOURCE: Binding Department OPERATOR: _____ INSPECTOR: You

UCL: _____ LCL: 0 AVERAGE: _____

