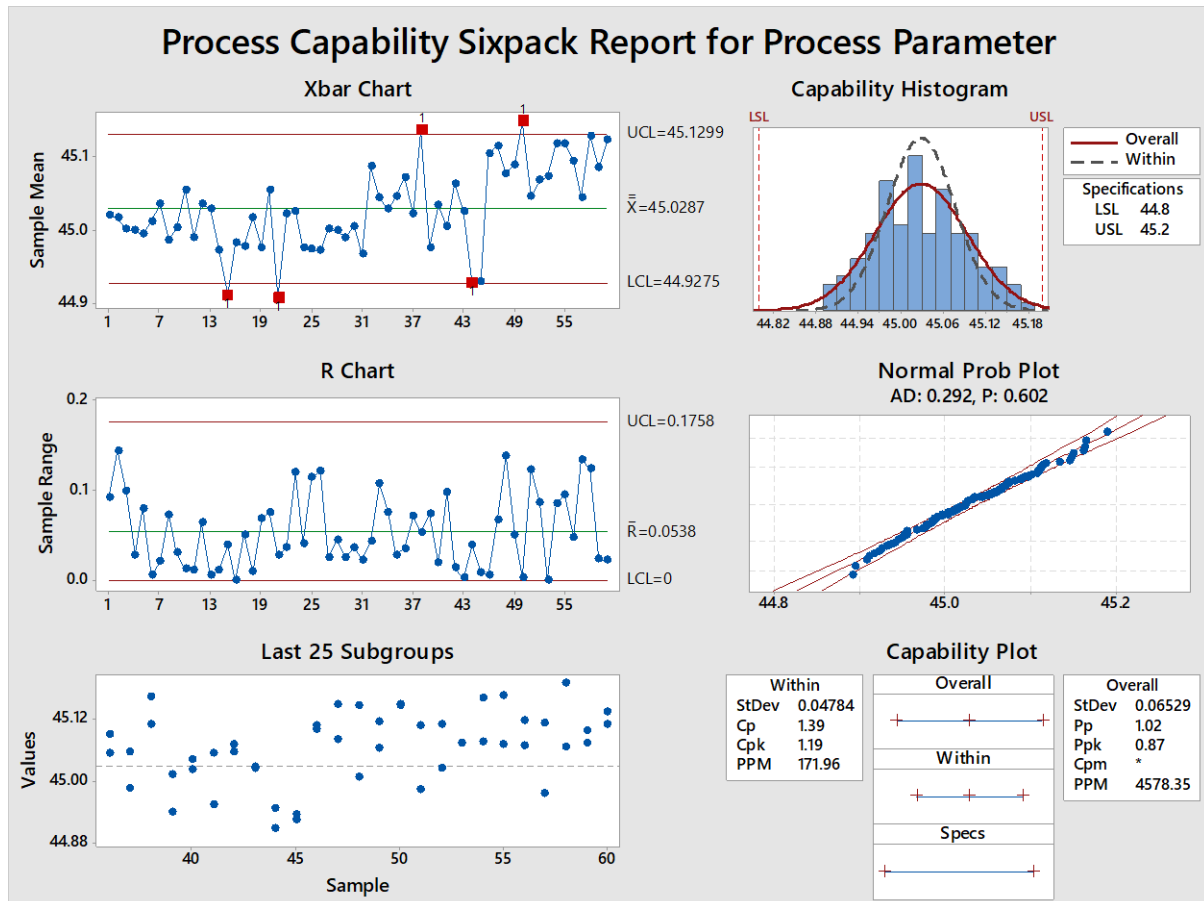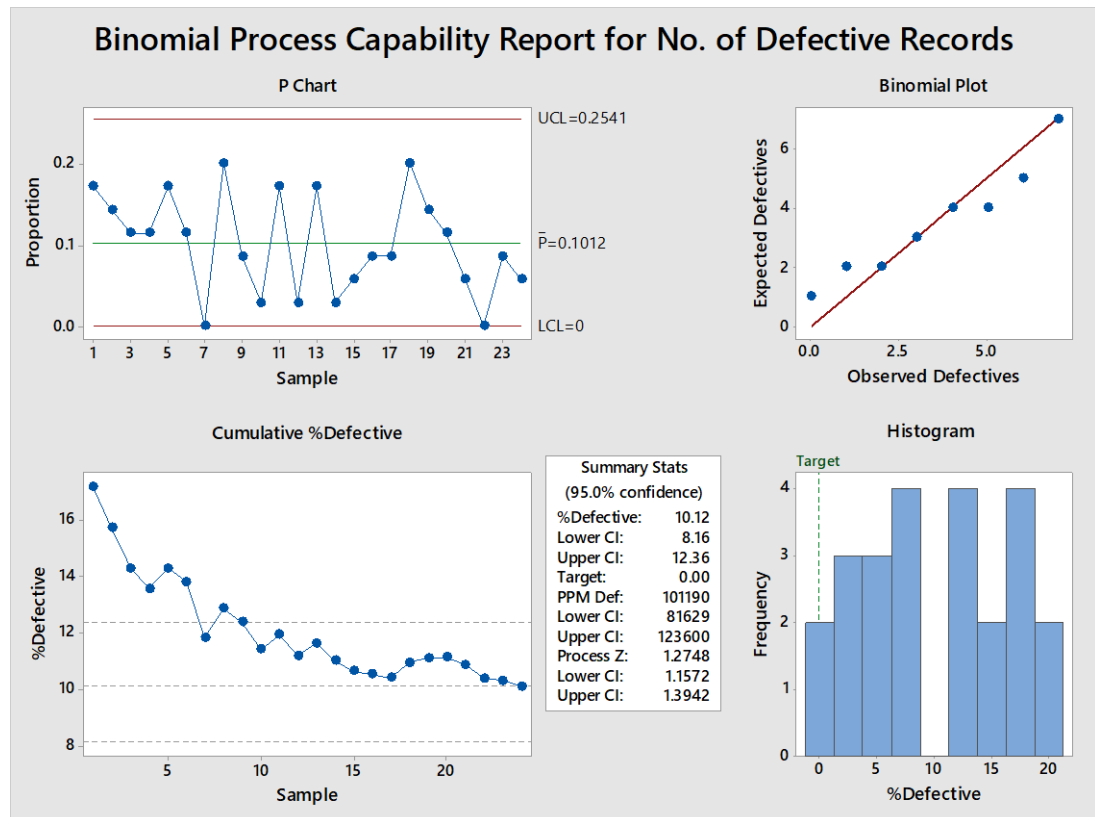## Assessing Capability & Performance

1. Perform process capability of the data provided. Identify if Normal, Non-Normal or between/within process capability has to be used. Assume Subgroup Size to be 2. (File : Process Capability_Practice File.xls)

   Ans:

2. An improvement leader established process sampling of HR background documents of employees. For this, 35 employee records were sampled every month to verify the quality. After 2 years, the improvement leader the sample data of verification and its results.

   a) Calculate the process capability of the process (Defective PPM)

Binomial Process Capability Report for No. of Defective Records

P Chart

UCL=0.2541
$\bar{P}$=0.1012
LCL=0

Binomial Plot

Cumulative %Defective

Summary Stats (95.0% confidence)

%Defective:	10.12
Lower CI:	8.16
Upper CI:	12.36
Target:	0.00
PPM Def:	101190
Lower CI:	81629
Upper CI:	123600
Process Z:	1.2748
Lower CI:	1.1572
Upper CI:	1.3942

Histogram

b) What is the probability that in the coming month sample of 35 records, we will have 34 correct?

Cumulative Distribution Function

Binomial with n = 35 and p = 0.1012

x	P(X ≤ x)
1	0.118034