

Computerized Applications of Control Charts

This course is designed to provide an in-depth analysis of control charts. The course assumes a familiarity of basic control chart concepts. You will learn the construction of various control charts including the charts for variables and attributes using a computer software, and the analysis and interpretation of the charts. The course will also examine the relationship between the control chart and hypothesis testing, constructing and interpreting the operating characteristic (OC) curve for a control chart, the probability of detecting a shift in the control chart, using the OC curve to determine the sample size (n) necessary to detect a shift in the process, determine the sampling frequency for a chart, the average run length (ARL) for a chart, the effect of increasing/decreasing the sample size on the control limits, and how to use the computer to perform these analyses.