

### **Data Analysis**

#### **Objective**

To understand outliers, trends, cycles and patterns in the process performance through Data Analysis and Data Interpretation by using Microsoft Excel and taking corrective actions by using statistical tools.

- Introduction to Data Analysis and Data Interpretation
- Descriptive statistics for Exploratory Data Analysis
- Measures of central tendency Mean, Mode, Median
- Measures of dispersion – Standard deviation, variance, coefficient of variation
- Inferential statistics for data analysis
- Confidence Interval and hypothesis testing i
- Business Applications for Data Analysis and Data Interpretation
- ANOVA
- Regression and correlation
- Chi square