

# Six Sigma

## Statistical Process Control (SPC) - 3 days

Course Code: SIG502

Every organizations measures performance and tracks that performance over time. Statistical process control, the use of control charts, provides the tool to tell management when and how to react to the data collected. It also improves the processes that it monitors over time, a process improvement program in and of itself. Every business process of importance should be tracked with a control chart and this class explains how to do that.

### Learning Objectives

- Selecting key measurements
- Recognize variation in measurements
- Interpret data distributions
- Calculate statistical control
- Select responses to variation
- Decide what action to take
- Introduce the control chart
- How to set up the chart
- Design data collection procedures
- Propose rational sampling
- Evaluate variables in control charts
- Compare charting options
- Interpret the Charts
- Implement a Control Chart system

### Topics & Content

- Choosing what to measure
- Patterns of variation
- Sources of variation
- Measuring variation
- Variation and management action
- Categories of variation
- Purpose of the control chart
- Why study control charts?
- Control chart fundamentals
- Types of control charts
- Types of data
- How much and how often to collect data
- Attributes control charts
- P and NP charts
- C and U charts
- X-bar and R charts
- X-bar and S charts
- Basis of rules
- The 8 rules
- Initial setup
- Expanding use
- Sharing the information

### Course Information

#### Duration

3 days

#### Audience

Those desiring to improve their Six Sigma skill set

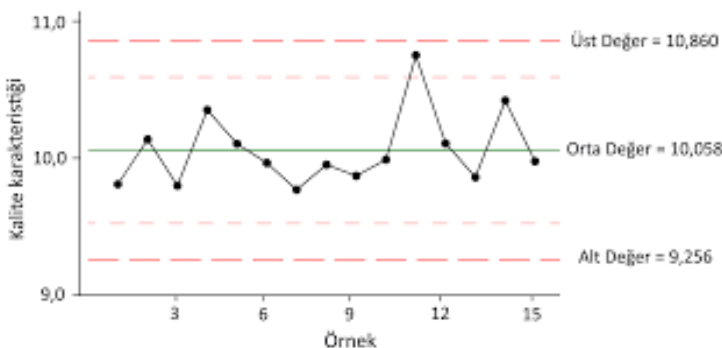
#### Accreditations

PMI: 21 PDUs

SHRM 21 PDCs

OPM: 21 CLPs

OPM Competency: Problem Solving



***“The topics were easily understood because of the teaching methods.”***