

CIE 1005
Six Sigma overview (1 day awareness)

Objectives:

- Learn about the six sigma initiative
- Learn what is it and why is six sigma is important?
- Introduce the breakthrough model (DMAIC)
- Become familiar with the terms and tools
- Prepare for the role as an “executive,” “champion,” “Master Black Belt,” “Black Belt,” and or “Green Belt
- Learn about the process improvement

Outline (1 day)

The process improvement methodology

The breakthrough strategy (DMAIC)

The significance of $Y = f(x)$

Define:

- Customer focus
- Kano and QFD models
- Operational definitions
- Process and product definitions

Measure:

- Measurement concept
- Variation issues
- Data

Analyze:

- Analysis of data
- Process and root cause analysis
- Quantify opportunity

Improve:

- Generate solutions
- Select solutions
- Implementing planning

Control:

- Monitor the process
- Documentation
- Institutionalize

Roles and responsibilities

Who should attend

Anyone who is interested in learning the very basic items about six sigma. (A very high overview of the six sigma methodology). Typical participants may be from Quality, manufacturing, engineering, purchasing, financial or even from maintenance.