

## Six Sigma Course Outline

**Six Sigma** is an overall approach that combines Six Sigma concepts and tools to the lean manufacturing / lean enterprise philosophy, striving to eliminate waste of physical resources, time, effort and talent, while assuring quality in production and organizational processes. Many organisations around the world are looking to Six Sigma to provide them the competitive edge, improve processes, reduce cost, solve organisational problems and develop skill base to sustain improvement over a longer period of time.

**Classroom training based on practical application on assignments/project after every session.**

### COURSE CONTENT

#### Define Stage

- Lean Six Sigma Overview
- Six Sigma Organizational Development
- Define Phase Project Selection
  - Voice of Business, Voice of Customer
  - Project Charter
- Process Mapping
  - Process Mapping
  - SIPOC
  - RACI Matrix
- Brainstorming
- Cause and Effect Matrix
- Failure Mode and Effect Analysis

#### Measure Stage

- Level 2 Process Mapping
- Data Collection Plan
- Basic Statistics
- Introduction to Minitab
- Introduction to Statistical Process Control
- Measurement System Evaluation
- Capability Analysis
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#### Analyze Stage

- Basic Lean Tools
  - 5S
  - 7 Waste
  - Value Stream Mapping
  - Takt Time and Balancing

- Level 3 Process Mapping
- Multi Vari Studies
- Hypothesis Testing
- ANOVA
- Correlation and Regression
- Chi Square

#### **Improve Stage**

- Solution Selection Matrix
- Mistake Proofing
- Introduction to DOE

#### **Control Stage**

- Process Control Plan
- Statistical Process Control
- Project Documentation

**Above is our standard course outline, please suggest if you would like to include also few topics during the training to make sure it covers all your requirements and make this course a customized course.**



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