

Course Content Outline

benchmark **6**ix sigma  
Inspiring Minds, Facilitating Excellence

# Lean Six Sigma Green Belt

THE START OF A GREAT CONTINUOUS IMPROVEMENT JOURNEY

## **Session 1**

- Introduction to Lean and Six Sigma
- Origins and history
- Basic statistics

## **Session 2**

- Variation and limits
- Process capability assessment

## **Session 3**

- Define phase
  - Generate ideas
  - Select a project
  - Finalize charter and high level map

## **Session 4**

- Performance standards for output
- Validating measurement system
- Measure baseline performance

## **Session 5**

- Measuring baseline (cont'd)
- Performance assessment using
  - Continuous data
  - Discrete data

## **Session 6**

- List all probable causes
- Identify critical causes
  - VA/ NVA analysis
  - Graphical tools

## Session 7

- Hypothesis testing basics
- 2 proportion test
- Chi square test

## Session 8

- Tests for comparing variances
- Tests for comparing means
  - 2 sample t test
  - ANOVA

## Session 9

- Correlation and regression
- Failure mode and effects analysis

## Session 10

- Generate and evaluate solutions
- Select and validate best solution
- Mistake proofing

## Session 11

- Prepare & implement control plan
- Document solutions and benefits
- Transfer to process owner

## Session 12

- Online test
  - Duration - Two hours
  - Questions - 80
  - Format - Multiple choice questions

The pessimist complains about the wind; the optimist expects it to change; the realist adjusts the sails.

Be a realist!