

CERTIFICATION PROGRAM**Certified Six Sigma Black Belt**

Six Sigma is here to stay; creating the double-helix of the organization's DNA towards continual improvement. And for us to govern the multiple Six Sigma projects to be deployed across the business—may it be in the operations, service or the support side, the scalability of the program should be managed and the flexibility of handling problem solving regardless of its intricacy should be well taken into consideration.

Overview of Course Curriculum

- * Leading & Managing in a Six Sigma World
- * Building an Effective Metrics System
- * Measurement System Analysis
- * LEAN Thinking for Process Mapping & Optimization
- * Value Stream Mapping Techniques
- * Statistical Process Control: Detecting Process Variation and Capability
- * Root Cause Analysis & Risk Management Techniques
- * Graphical Toolbox for Data Interpretation & Analysis
- * Multivariate Analysis
- * Hypothesis Testing for Advanced Data Analysis
 - * Probability Theory
 - * Parametric Distributions
 - * Testing for Goodness of Fit
 - * Testing for Variances
 - * Testing for Means
 - * Nonparametric Statistics
- * Linear Regression Modelling
- * Logistic Regression Modelling
- * Design of Experiment Fundamentals
- * Design of Experiment Screening & Optimization
- * I THINK: Guide to Innovative Thinking
- * Change Management for Sustaining Success
- * Understanding Design for Six Sigma (DFSS)
- * Project Management for Lean Six Sigma
- * Training the Lean Six Sigma Consultant
- * Measuring Financial Gains from Continuous Improvement

This 20-Training Day Certification Program is designed to develop the **Black Belt** role of handling of multiple Six Sigma projects, program governance and organizational assessment towards Six Sigma maturity. The Black Belt acts as a mentor of the Green Belts which merits the intensiveness of the Black Belt's curriculum in the analytics and knowledge on other Enterprise Quality models such as Design for Six Sigma, Lean and TRIZ.

Upon completion of this program, an individual shall be able to demonstrate the skills in implementation of principles, science, practices and techniques of Six Sigma for maximum cost reduction and profit improvement. Black Belts may be utilized for several simultaneous Six Sigma projects or may operate as internal consultants, working with a number of teams at once. They may also be utilized as instructors for problem solving and analytic classes. The training days are staggered to allow the individual to set the pace of their identified projects with the training.

The knowledge areas in the curriculum are aligned with industry known body of knowledge in Six Sigma and other areas such as DFSS, TRIZ, Lean, Balanced Scorecard and Innovative Thinking Techniques. The course is also equipped with the application of MINITAB.