



The Lean & Six Sigma Green Belt Program

Course Outline



Program Overview

This 5-day program on Six Sigma Green Belt Certification will help you understand and implement six sigma improvement methodologies for internal process improvement through independent projects and support your black belts in large cross-functional projects leading to Organizational success. It will help you to lead and execute process level improvement initiatives, drive quantified success, achieve improved customer satisfaction through appropriate measurement and help the Organization achieve increased productivity & profits.

Duration

3-day program (accelerated program)

5-day program (standard)

Learning Objectives

At the end of this training, participants will be able to:

- Gain comprehensive knowledge about six sigma and its applicability to operational areas
- Understand the DMAIC methodology, the various process improvement tools and techniques used at different stages and how to effectively use them
- Learn how to develop a clear project charter and contribute to the success of any process improvement initiative
- Learn how to review the project, analyze its performance, team dynamics, efficiency and outcomes
- Contribute to Organizational improvement and profitability by helping improve product quality and customer satisfaction

Target Audience

- Any professional expressing interest to master the basic skills of the SSGB and is implementing a six sigma project within the organization

Program Structure and Outline

This course is a combination of instructor-led lectures and group activities. One-to-one coaching sessions on six sigma projects will be included within the course of the program.

- Introduction and Overview
 - Quality- few things to know about
 - Ideas on quality
 - The relationship between risks and quality
 - Quality assurance, Quality control and Quality Management
 - The Lean and Six Sigma
 - The concept of Lean
 - The concept of Six Sigma
 - The Convergence of Lean and Six Sigma
 - The Six Sigma Organization
 - The Six Sigma difference- traditional vs. Six Sigma
- Six Sigma- the Define Phase



- Approaches in Project Selection
- From needs to requirements- working on VOC and CTQ
- Defining the Key Process Input & output variables (KPIV, KPOV)
- Making the Project Charter
 - The elements
 - The Steps
- Process Mapping and SIPOC
- Six Sigma- the Measure Phase
 - Developing the Value Stream Map
 - Defining the data collection plan
 - The types of data
 - Sampling techniques
 - Describing the data with Probability and Statistics
 - Descriptive Statistics- Measures of Location and Variation
 - The Normal Distribution and Empirical Rule
 - Assessing Normality and Goodness of fit
 - Graphing tools and techniques
 - Working through the tools
 - MS Excel
 - Minitab (version 17 is recommended)
 - Measurement System Analysis
 - Process Capability Studies
- Six Sigma- the Analyze Phase
 - Going through the potential root causes: Cause-and-effect diagrams
 - Spotting the vital root causes
 - Prioritization Matrix
 - Multi-vari analysis
 - Validating few root causes:
 - Qualitative data gathering
 - Hypothesis testing
 - ANOVA
 - Managing brainstorm creativity with Six hats thinking
- Six Sigma- the Improve Phase
 - Identifying the solution with future states
 - Process Redesign
 - Future state value stream mapping
 - Stakeholder analysis
 - Validating solutions:
 - Design of Experiments (or Pilot tests)
 - Regression and Correlation Analysis
 - Defining preliminary controls
- Six Sigma- the Control Phase
 - Developing the control strategy with FMEA
 - Deploying process controls
 - Mistake proofing
 - documentation
 - Monitoring project performance
 - Working on the control plan



Why Choose SAS Management Inc.

We Deliver Results

SAS Management Inc. has consistently proven its capability to deliver and exceed our clients' expectations. We are the only PEOPLECERT® Accredited Training Organization (ATO) in the Philippines. Our pool of consultants and trainers are seasoned industry veterans who have above average qualifications and certifications such as Business Management, Process Improvement, and Organizational Development Programs.

We Create Value

SAS Management Inc. believes in ensuring that our services meet the intended needs of our clients. To us, it is more than just providing training and consulting but rather ensuring that these are the things that our clients really need. This is why SAS Management Inc. is probably the only training provider that does a thorough needs assessment prior to providing a proposal. Our goal for every proposal is to CREATE VALUE for your organization.

SAS Management, Inc. is affiliated and endorsed by the following organizations:

