



# **Combined Six Sigma Yellow & Greenbelt Certification Workshop**

## Course Outline



## Program Overview

This 5 day combined course include 2 days training on Six Sigma Yellow Belt and 3 days training in Six Sigma Green Belt. Applicants are not required to take the Six Sigma Yellow Belt exam, and a package discount is offered to applicants who enroll this combined course.

This 5-day program on Six Sigma Combined Course 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.

DMAIC methodology is used to maximize cost savings using Statistical Process Control.

The DMAIC (D-Define, M-Measure, A-Analyze, I- Identify, C-Control) methodology is presented with case studies and examples drawn from business processes.

## Duration

5 – Day Program

## Learning Objectives

Upon completion of this workshop you will understand:

- 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

- Managers
- Internal consultants
- Change Agents
- Project Managers
- Team Leaders and team members who will be involved in Six Sigma projects.

*\* The Six Sigma Yellow Belt Training course is appropriate for all levels within an organization.*

## Project Structure and Outline

The Program is delivered using a combination of instructor-led lectures, case study and exercises on practical implementation of the concepts discussed within the training. The topics presented below define the areas of focus under the program.

### Yellow Belt Module

#### **Six Sigma Yellow Belt Course Outline:**

##### **Day 1**

- **Introduction to Six Sigma**
- **Define**
  - Selecting a process
  - Project launch
  - Charter statement
  - High Level Process Maps (SIPOC)
  - Voice of the customer (VOC)



- **Measure**

- Data collection
- Discrete vs. continuous data
- Process mapping
- Baseline process performance

## **Day 2**

- **Analyze**

- Root cause analysis tools
  - Cause/effect diagram
  - Histograms/dotplots/boxplots/scatterplots
  - Concentration diagrams
  - FMEA
  - Force field analysis
  - Time plots
  - Five whys/casual trees
- Identifying & validating causes

- **Improve**

- Methods/tools for selecting solutions
- Implementing & evaluating process improvements

- **Control**

- Standard operating procedures
- Process monitoring & control
- Project closure

- **Examination**



## **Green Belt Module**

### **Six Sigma Green Belt Course Outline:**

#### **Day 3**

- **Program Overview**
- **Introduction to Six Sigma**
  - Basic Concepts
  - Importance & Benefits
- **DMAIC Methodology Overview**
- **Define Phase**
  - Project Definition Basics & Concepts
  - Project & Team Charter
  - Communication protocol
  - Voice of the Customer
    - Translating customer needs to specific requirements

#### **Day 4**

- **Day 1 Recap**
- **Measure Phase**
  - Basics of process measurement
  - Data collection – Basics, Concepts & Tools
  - Data analysis
    - Statistics theory & Introduction to Minitab
    - Identifying Patterns – Time dependent & time independent

- Process Analysis – Control & Capability
  - Sigma calculations, SLAs and Business Objectives
- Project Discussion (1 on 1 with trainer)

- **Analyze Phase**

- Data & Process Analysis
  - Data Segmentation & Stratification
- Analysis Tools
  - Root cause identification
  - Problem Solving Basics
- Project team validation
- Project Discussion (1 on 1 with trainer)

## **Day 5**

- **Improve Phase**

- Facilitation Skills and Decision Making Basics
- Seeking the solutions
  - Brainstorming
  - Generating ideas and selecting solutions
  - FMEA
  - Mistake Proofing
  - Design of Experiments
- Solution implementation
- Project Discussion (1 on 1 with trainer)

- **Control Phase**
  - Process performance measurement & review
  - KPIs and measurement criteria
  - Monitoring and Control
  - Documentation & Communication
    - Developing Process control plan
- **Short project presentation and lessons learned**
- **Examination**



## 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:



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