![Fifalde Consulting Inc. logo — Leading Your Business Transformation]

Six Sigma Green Belt

Course Description

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1. Introduction to the Course

The **Six Sigma Green Belt** focuses on providing students with an understanding of the various Six Sigma tools and techniques useful to improve the production process and minimize defects in the end product with a greater focus on the practical implementation of these tool and techniques in the organization.

The **Six Sigma Green Belt certification** is automatically achieved after passing the Six Sigma Green Belt exam. The Six Sigma Green Belt course provides an optimal preparation to pass the exam and, therefore, to obtain the certification.

The learner taking this course will be provided with:

- Course syllabus
- Presentation material

2. Course Preparation

No preparation or pre-requisites are necessary to undertake this training.

The certification Six Sigma Green Belt is also a prerequisite to continue with the following level of qualification Six Sigma Black Belt.

3. Target Group

The **Six Sigma Green Belt courses** are highly recommended for employees and organizations requiring a standardized approach to problem solving for the purpose of continuous improvement in Quality Management. The course prepares the participants for the **exam Six Sigma Green Belt certificate**.

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4. Course Objectives

During Six Sigma Green Belt certification course, participants will be able to develop:

- Understanding of the concepts, implementation & objectives of Six Sigma
- Ability to use a structured approach to process improvement
- Ability to use DMAIC (Define, Measure, Analyze, Implement and Control) methodology
- Skill to predict, prevent and control defects in a process
- Understanding of the elements of waste
- Skills to achieve sustainable quality improvement through process improvement
- Understanding of the tools of process discovery
- Understanding of variation in processes
- Skills to reduce variation in processes and achieve predicted outcomes
- Ability to identify, measure and analyze process potential
- Usage of inferential statistics
- Usage of hypothesis testing
- Understanding when to use which Six Sigma methodology
- Ability to use Capability Analysis to control processes
- Knowledge of the interdependence of Lean tools

- Skills to prevent, identify and control defects
- Understanding and use of statistical process control
- Skills to train, document, monitor, respond and align systems

5. Delivery Method

An element of customization is possible within the standard price. Further tailoring to meet specific requirements is available at additional cost.

The exam will be online, have 90 questions, last for maximum 120 minutes, and upon successful completion, the candidate will earn the Six Sigma Green Belt official certificate.

6. Educational alternatives

This course was designed so that it makes use of the following educational alternatives:

- **Deduction:** Using anecdotes and examples, the training presents use cases before the concepts have even been covered. The students deduct the learning from their own analysis. The topic and its concepts are presented afterwards to demonstrate how theory applies to what was deducted.
- **Questioning:** Asking questions forces participants to stop and think about different variables. It also enables the participants to put the newly acquired knowledge to the test. Quizzes have been incorporated as part of the training to make sure that the concepts are well understood by the participants
- **Demonstrating:** Some use cases have been incorporated to the training AFTER the concepts. These serve to explain a cause and effect relationship using the newly acquired knowledge.

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