

Six Sigma Yellow Belt Certification Course

Course Objectives

The essential objective of this course is to create awareness within the organization regarding various basic requirements of the Six Sigma methodology. DMAIC (Define, Measure, Analyse, Improve and Control) & impart working knowledge on how the methodology can be implemented to a specific Problem or Process Improvements.

Course Features

It essentially covers the basic requirements of Six Sigma methodology and the application of the different tools and techniques for a specific problem or process improvement. The course is designed in such a way that any person with one or two years of working experience would understand the fundamental principles of the Six Sigma Methodology.

Who should attend?

- Those who wish to become part of companywide Six Sigma practices and/or Improvement Projects
- Working Executives who want to become Six Sigma Experts. (e.g. Quality Assurance Engineers, Project Managers, Team leaders, Software Professionals, Practitioners, Software Quality Assurance team members and Senior Management)
- Future managers
- Any other professional members who are doing research, innovations or consulting in process improvement practices
- Management and Engineering Students are desirous to be more resourceful and employable

Course Contents

- Introduction to Six Sigma
- Development & History
- Basics & overview of DMAIC (Define, Measure, Analyze, Improve, Control Phase)
- End of course

Certificate

APB certificate of “Six Sigma- Yellow Belt” shall be awarded to all the delegates up on successful completion of this course.

Duration

2 Days

SIX SIGMA GREEN BELT COURSE

Course Objectives

The essential objective of this course is to train an individual regarding requirements of the Six Sigma methodology. DMAIC (Define, Measure, Analyze, Improve and Control) & application of the class room training on one of the selected practice improvement project.

Course Features

It essentially covers the basic requirements of Six Sigma methodology and the application of the different tools and techniques for a specific problem or process improvement. The course is designed in such a way that any person with one or two years of working experience would understand the fundamental principles of the Six Sigma Methodology. Knowledge of Statistical techniques and use of software such as Minitab will be desirable.

Who should attend?

- Those who wish to become part of companywide Six Sigma practices and/or Improvement Projects
- Working Executives who want to become Six Sigma Experts. (e.g. Quality Assurance Engineers, Project Managers, Team leaders, Software Professionals, Practitioners, Software Quality Assurance team members and Senior Management)
 - Those who want to get certified as Green Belt in Six Sigma
 - Future managers
 - Any other professional members who are doing research, innovations or consulting in process improvement practices
 - Management and Engineering Students are desirous to be more resourceful and employable

Course Contents

- Introduction to Six Sigma
 - Development & History
 - Define Phase: understanding six sigma, DMAIC, VOC to CTQ, COPQ, FTY, RTY, Project Charter, Pareto Analysis, Elements of Waste
 - Measure Phase: Introduction, Cause & Effect Analysis, SIPOC, FMEA, MSA
 - Analyze Phase: Overview, Minitab, Hypothesis testing
 - Improve: Overview, Correlation, Regression, DoE
 - Control Phase: Overview, Mistake Proofing, SPC
 - Practice Projects
 - End of course

Certificate

APB Consultant certificate of “Six Sigma- Green Belt” shall be awarded to all the delegates up on successful completion of this course.

Duration

5 Days

Six Sigma Black Belt

Course Description

Operational Black Belt participants receive a thorough exposure to the tools and methods that are necessary to successfully lead Lean DMAIC improvement projects in a manufacturing and transactional environment. Appropriate tools for the application of the DMAIC improvement methodology will be introduced along with hands-on exercises and tutorials to ensure rapid learning and knowledge retention. As part of the programme participants are encouraged to identify a project within their own business that will provide a real life problem to be solved using the tools and methods learned throughout the course. The project should be challenging yet of a scale that can be progressed as far as possible during the training while under the guidance of one of our highly experienced Master Black Belts.

Training is a mix of up-front teaching, and group and individual exercises. Training material is supplied in hard copy format for delegate use.

This Twenty - day programme is delivered in 4 modules of 5 days (typically 1 month between modules) to allow participants to apply what they have learned to a project within their own business while under the guidance of one of our highly experienced Master Black Belts. A certificate of Black Belt (Operational) will be awarded upon successful completion of the course.

Candidate Prerequisites

Six Sigma Black Belts are expected to be able to run individual projects themselves, and to lead larger projects using Green Belts as a resource. Candidates should have good communication skills, experience of team working to improve processes or solve problems, good operational skills and ideally some basic statistical knowledge. This programme is designed to ensure that Black Belts are provided with a good understanding of, and the ability to apply the most widely used tools and techniques. All candidates are required to bring a laptop computer to the course, equipped with Microsoft Windows 2000 or later with all service releases

Who should attend?

Managers, supervisors, Green belts, and employees and who want to apply quality control process, efficiency, and methodologies learned in class to a project within their own business

- Quality system managers
- Operations manager
- Production and materials managers
- HR managers
- Finance and commercial managers
- Management consultants
- Green belts
- High potential employees

Benefits to Your Business

Implementing Six Sigma Black Belt projects will enable the organization to:

- Reduce process variations
- Exceed customer expectations
- Drive productivity and growth
 - Provide competitor differentiator in the market
 - Improve the organization culture towards problem solving & Improvement initiatives

Course Structure

A combination of tutorials, workshops and exercises using Minitab software

Course Outline

- The history of Six Sigma
- Six sigma tools and their application
- The DMAIC process improvement roadmap
- How to establish customer requirements
- How to measure process performance
- How to make processes visible using mapping techniques
- Improvement strategies for transactional processes
- How to sustain improvement
- Understanding and coaching of statistical tools
- Managing and coaching Green belts and their projects

Six Sigma Tools covered

- SIPOC
- QFD Matrix
- Data Integrity, Gage R&R
- Sigma computation, Hypothesis testing
- ANOVA, Chi square test
- Linear regression, DOE fundamentals
- FMEA, Control Charts
- Process mapping and waste identification based on lean methodology
- **Certificate**
APB Consultant certificate of “Six Sigma- Black Belt” shall be awarded to all the delegates up on successful completion of this course.