

Six Sigma Black Belt



Six Sigma, in today's competitive business environment, is becoming more popular as it is a proven methodology that seeks to identify and remove the causes of defects and errors in organization's business operations including manufacturing and/or service operations including other support processes. If implemented successfully, each **Six Sigma project** carried out within an organization by following a defined sequence of steps, can bring in tremendous savings & improvements. It uses a set of quality management methods, including statistical methods, and creates a special infrastructure of people within the organization ("Green Belts, Black Belts" etc.) who are experts in these methods. Six Sigma Training therefore is vital to create the infrastructure of people to drive the improvements. With objectives to understand Six Sigma & DMAIC methodology, tools & techniques, and Lean components, to understand the concepts such as VOC, VOB & VOP and other advanced tools, to clearly understand the effective use of tools in six sigma projects implementation, to understand roles & responsibilities in successful deployment of Lean & six sigma projects and to enhance the skills and proficiency of the six sigma practitioners to train and guide juniors.

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Who should attend ?

- Individuals who have completed the Green Belt Certification of Lean Six Sigma or Six Sigma and are engaged in doing Improvement Projects
- Working Executives wishing to become Six Sigma Experts (e.g. QA Engineers, Project Managers, Team leaders, Software Professionals, Practitioners, Software QA team members and Senior Management)
- Professionals involved in research, innovations or consulting in process improvement practices
- Management and Engineering Students desirous to be more resourceful in enhancing the proficiency of Six Sigma project implementation

Course Contents

- History of Six Sigma and lean improvement methodology
- Define Phase: DMAIC, VOC to CTQ, COPQ, Yield, Project Charter, Stakeholder Analysis, Pareto Analysis, Elements of Waste, QFD
- Measure Phase: Cause & Effect Analysis, SIPOC, FMEA, Measurement System Analysis, Value Stream Mapping
- Analyze Phase : Overview, Minitab, Hypothesis testing, DOE
- Improve Phase : Overview, Correlation, Regression, DoE, ANOVA
- Control Phase: Overview, Mistake Proofing, SPC, Control Plan, Training, Dash Board
- Practice Projects
- Written Examination,
- End of course

Certificate

Certificate of successful completion shall be issued to all the delegates who attend entire duration of the course & pass the written examination.

Duration

8 Days in two phases with 4 days in each phase (Spread over one month with a gap of at least two weeks between them)