



LEAN SIX SIGMA MASTER BLACK BELT CERTIFICATION COURSE

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NVT QUALITY CERTIFICATION INTERNATIONAL



GLOBAL CERTIFICATION AND TRAINING SERVICES



LEAN SIX SIGMA MASTER BLACK BELT CERTIFICATION COURSE



LEAN SIX SIGMA MASTER BLACK BELT



Course 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
- To enhance the skills and proficiency of the six sigma practitioners to train and guide juniors

Course Benefits

- Gain expertise in advanced problem solving and data analytical tools
- Learn training, coaching and facilitation skills
- Gain confidence to mentor and lead complex (cross-functional) projects
- Plan and establish organizational metrics and dashboards
- Mentor teams on project identification and execution
- Coach Yellow Belts, Green Belts & Black Belts
- Achieve business leadership roles and responsibilities
- Achieve globally accepted Certified Lean Six Sigma Master Black Belt certificate

Duration

160 hours



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COURSE CONTENT

- **Introduction**
- **Enterprise Wide Planning and Deployment:**
 - Strategic Plan Development- Strategic planning tools and methods- (SWOT, PEST, Hoshin Kanri, Balanced Scorecard etc.)
 - Strategic Plan alignment- Project alignment with business objectives
 - Improvement methodologies- (DMAIC, DFSS, Lean, Business Process Management & Systems)
 - Project Identification and Qualification (New project identification and prioritization, elements of a well-defined project, approval process and tools used for project definition)
- **Advanced Data Management and Analytic Methods:**
 - Multiple Regression Analysis
 - Advanced approaches in DOE (Response Surface Methodologies, Taguchi Design etc.)
 - Understanding Non-Normal data / distributions and handling Non-Normal data

CONTD 1...

COURSE CONTENT CONTD 1...

- **Business Analytics and RPA (Robotic Process Automation):**
 - Business Analytics: Introduction and Overview of Business Analytics to make better decisions
 - RPA: Introduction and Overview of RPA
 - Strategies for RPA Implementation
- **Design Thinking:**
 - Understanding Design Thinking as a problem-solving approach - extremely helpful in designing a new product or process
 - Understanding important factors while capturing VOC
- **Emotional Intelligence:**
 - Understanding and overview of Emotional Intelligence
 - How we can learn EQ and apply it in various situations
- **Advance Lean Tools:**
 - Lean Flow Concept
 - Line Layout
 - Takt Time/Cycle Time/Lead Time
 - Standard Work
 - Kanban

CONTD 2...



LEAN SIX SIGMA MASTER BLACK BELT CERTIFICATION COURSE CONTENTS



COURSE CONTENT CONTD 2...

- **Training, Coaching and Facilitation skills:**
 - Define Training, Coaching and Facilitation
 - Motivating and engaging people
 - Objection handling and managing behaviors
 - Activities- Role Plays
 - Feedback discussions and Takeaways

- **Working sessions - doing Projects for solving complex business problems:**
 - To have an experience of how we do an LSS Project to solve a Complex Business Problem- Taking a complex business problem and solving it using LSS approach and Tools
 - Project Reviews
 - Reviews and Feedback sessions

- **Working sessions- Business Problem Case Study:**
 - Case Study presentations and discussions
 - Feedback and Discussions

NVT QC AT A GLANCE

Over 25 years experience

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