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5 Days - Six Sigma Black Belt

ABOUT THIS COURSE

This Application Oriented Course (taught through exercises and case studies) is targeted towards result oriented practicing professionals (not statisticians). It provides a road map towards capturing market share in today's global economy via quantum reductions in variation, defects and total cost.

This Course is specifically design for professionals who will lead the six sigma projects in the organizations.

TARGET GROUP

Any professional who is responsible for improving a business process, product or service.

OBJECTIVES

- Understand basics of six sigma including DMAIC cycle.
- Describe the quality in terms of product features and freedom of deficiencies.
- Identify external and internal customers.
- Describe yellow belts, green belts and black belts.
- Describe the impact of quality on customers.
- Describe the impact of cost of poor quality on customer and internal loses.
- Distinguish the breakthrough project.
- Describe how projects are nominated, evaluated.
- Describe the discovery of root causes.
- Implement an improvement and design new control.
- Can execute the project independently
- Can train the yellow and green belts.
- Can implement the advance SPC techniques like doe, ANNOVA, regression, capability analysis, MSA etc.

COURSE CONTENT

Overview and History of Six Sigma

- Six sigma and organization Goal
- Lean Principles in the organization
- Design for six sigma in the organization
- Enterprise view and leadership
- Organization Goal and Objectives
- Foundation of Six sigma
- Business process management
- Voice of customer and Business Results
- Project Management
- Lean Principle in the Organization

Define

- Process management for projects
- Project management Basics
- Management and planning tools.
- Business Results for projects.
- Team Dynamics and performance
- Project Matrices and Problem Statement

Measure & Analyze

- Process Analysis & Probability and statistics
- Collecting and summarizing Data
- Probability Distribution and Metrology
- Process Capability of attribute data
- Measurement system Analysis
- Process Capability and performance.
- Exploratory Data Analysis and Hypothesis Testing

Improve & Control

Design of Experiment includes;

- Terminology and Planning and organizing experiments
- Design Principles
- Design and Analysis of One Factor experiment
- Design and Analysis of full factorial experiments
- Design and Analysis of two-level fractional experiment
- Taguchi Robustness Concepts and Mixture Experiments
- Statistical Process Control (SPC)
- Implement and validate solutions
- Control Plan and Project Presentations