Six Sigma Black Belt

Jeddah KSA
November 08-12 2015

Time: 09.00h – 17.00h
Location: University of Business & Technology Continuing Education Center
King Road Tower
2701, 27th Floor
Malik Road, Jeddah
Kingdom of Saudi Arabia
Program language: English
Expert consultant: Paul Odomirok

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GENERAL INFORMATION

WHO SHOULD ATTEND

This course is designed for individuals from diverse organizational functions—operations, quality, logistics, finance, production, engineering and other staff functions. Participants are normally process owners or leaders and are well versed in technical aspects of their jobs and have worked on project teams.

FORMAT

This course is an instructor-led, classroom-based environment. The instruction is a blend of lecture, application, individual and team-based exercises. Laptop computers will be used extensively during the class. There is normally additional 50 hours recommended of self-study and practice where the individual returns to their work environment to apply the knowledge and skills learned in class to their projects. This entire course is 5 days in length.

COURSE OBJECTIVES

- Analyze process data using comprehensive statistical methods
- Control the process to assure that improvements are used and the benefits verified
- Define an opportunity for improving customer satisfaction
- Implement the recommended improvements
- Improve existing processes by reducing variation
- Measure process characteristics that are critical to quality

PAUL ODOMIROK

Paul Odomirok is President and CEO of Performance Excellence Associates, Inc. For the past 40 years, Paul has been involved in several careers from Academia to Corporate Leadership to Consulting to Entrepreneur. In his ‘first career’, he taught Mathematics and Computer Science at all levels of learning, from Pre-School to Post-PhD. He was even involved in designing graduate level curriculums at the University of South Carolina as an Adjunct Professor.

His second career began in 1985 with NCR. Beginning as a Senior Programmer Analyst, he was promoted to Manager - Software Development, Product Manager, Manager – Product Management, Corporate Strategic Planner for Banking, Director – Retail Systems Product Integration, Director of Quality and Corporate Coach. During his stint corporate America, he experienced the NCR/AT&T merger; and was responsible, as a Director of Quality, for the cultural transformation and change leadership for the Retail Systems Division Organization in Duluth, Georgia.

He left NCR/AT&T in 1995 to pursue a consulting career, in the areas of Leadership, Team Development, Strategy, Structure, Systems and Organization Performance. Over the past 20 years, he’s worked with more than 60 companies on over 135 different performance improvement projects and organization change programs. In this time he’s created, owned and operated several businesses. His expertise ranges across a variety of disciplines, including Lean, Six Sigma, Supply Chain and Leadership/Management Development. Although most of his projects have been concentrated in the commercial business area, his most recent projects have been with the DoD for leadership development, strategic planning, increasing process speed, improving quality, lowering cost and attaining supply chain logistics excellence for two specific programs; F/A-18 ‘Super Hornet’ and MRAP (Mine Resistant Ambush Protected vehicle program).

Both his B.S. and Master’s degrees are concentrated in Mathematics, which he utilizes today for complex problem solving, implementing change and improvement, teaching Transformation/Change, Project Management, Lean Six Sigma Green/Black Belt Training through the IIE, Lean Manufacturing Principles using Statistics, and other data analysis methods and approaches. He has been involved in research with Bell Labs for Technical Team Design, and served on a Harvard research team called ‘The Events And Motivation Study’ (HBS T.E.A.M. Study).

COURSE OVERVIEW

Learn the advanced problem-solving skills you need to implement the principles, practices and techniques of Six Sigma to maximize performance and cost reductions in your organization. During this three-week practitioner course, you will learn how to measure a process, analyze the results, develop process improvements and quantify the resulting savings. You will be required to complete a project demonstrating mastery of appropriate analytical methods and pass an examination. This practitioner course for Six Sigma implementation provides extensive coverage of the Six Sigma process as well as intensive exposure to the key analytical tools associated with Six Sigma, including project management, team skills, cost analysis, FMEA, basic statistics, inferential statistics, sampling, goodness of fit testing, regression and correlation analysis, reliability, design of experiments, statistical process control, measurement systems analysis and simulation. Computer applications are emphasized. It is preferred that participants have a windows based computer running Microsoft Office for the training program with all applications.
COURSE OUTLINE

- Introduction
- Projects
- Introduction to Statistics
- Descriptive
- Probability and Probability Distributions
  - Definitions
  - Rules
  - Hypergeometric
  - Binomial
  - Poisson
  - Normal
  - Exponential
  - Chi Square
  - F
  - Student t
- Confidence and Confidence Intervals
  - Means
  - Standard Deviations
  - Proportions
- Tests of Hypothesis
  - Means
  - Standard Deviations
  - Proportions
- Design of Experiments
  - Concepts
  - ANOVA
  - Factorial
- Statistical Process Control and Process Capability
  - Variables
  - Attributes
- Process Capability
- Short Run SPC
- Acceptance Sampling
- Reliability
- Measurement Systems Analysis
- Goodness of Fit Testing
- Regression and Correlation
- Linear
- Curvilinear
- Multivariate
- Six Sigma Philosophy and Structure
- Project Management
- Teamwork
- Cost of Quality
- FMEA
- Lean Concepts

PROGRAM TIMINGS

Registration will begin at 08.00 on Day One. The program will commence at 08.30 each day and continue until 16.30. There will be two refreshment breaks and lunch at appropriate intervals.

Learn how to integrate principles of business, statistics and engineering to achieve tangible results. Master the use of Six Sigma to quantify the critical quality issues in your company. Once the issues have been quantified, statistics can be applied to provide probabilities of success and failure. Six Sigma methods increase productivity and enhance quality. As a Six Sigma Black Belt, you will be equipped to support and champion Six Sigma implementation in your organization.

Six Sigma Black Belt is a business management strategy that is aimed at improving the performance and profitability of a business, by increasing process efficiency and eliminating waste. There are different levels of training and certification within the Six Sigma system, including the white belt and green belt. Six Sigma has steadily gained in popularity since its introduction in the 1980s at Motorola. Based on quality methodologies and the Japanese focus on reducing defects, it represents a systematic approach to understanding and managing processes. The DMAIC methodology is used for process improvement, while DMADV is used for creating new processes and products. But Six Sigma is about more than just conducting projects, it is a philosophy and mindset that impacts the way a business is run.