

# Workshop on Applicative Six Sigma Green Belt Level

February 20 to 22 & 28, 2019

9:00 am to 5:00 pm

Venue: CEE@IBA, Karachi

## FEEDBACK RATING\*

Program 4.2/5

Faculty 4.4/5



## OVERVIEW

This course develops the understanding of the participants around the famous Six Sigma Methodology, its barriers and applications. It depicts the role of strategy, team work leadership planning, comprehension of statistical tools, and experimental design in accomplishing successfully a six sigma project. Objective of this certificate course is to expose the participants to the concepts of Six Sigma to improve their comprehension of defects and their reduction for improved Customer Satisfaction and Business Growth. This course work is comprised of definitions, principles, concepts, case-studies and implementation-strategies of Six Sigma. In this workshop, participants will not only be exposed to abstract Six Sigma Methodology but will also be encouraged to implement Six Sigma in a suitable area of their workplace. They will then present their application and findings after 1-week of the course. Companies will get benefited by this application of Six Sigma as their human capital will learn and apply. Another objective of this course is to prepare the participants for certification of ASQ's Certified Six Sigma Green Belt (CSSGB). Interactive discussions, lectures, videos, case-based and problems-based teaching methodology will be employed. Use of relevant software package will be another important facet of this course.

## WHO SHOULD ATTEND?

- Professionals, Engineers, Managers, Executives from Manufacturing and Service Industries (Health Care, Academia & Government)
- Participants should preferably come with ideas where a Six Sigma Project can be initiated in their workplace.

## FACULTY

**Dr. Rameez Khalid**, PhD (France), PMP, CQSSBB, OCP, PE, SECP-Certified Board Director, is Assistant Professor in the Department of Management at IBA Karachi. He did his Master and PhD in Industrial Systems from Toulouse, France. He is currently the Academic Program Director of PGD in Supply Chain Management. He teaches in the academic programs of the Institute. He is a consultant for Operations Management, Project Management, Six Sigma, and Quality Management in a variety of industries. He is a certified and qualified Six Sigma Black Belt, certified Project Management Professional and Lead Assessor in OHS (ISO-18000), QMS (ISO-9000) & SC-SMS (ISO-28000). He has published papers in international journals and conference proceedings. His research interests are: Project Management Maturity, Risk Management, Lean Six Sigma, Operations Research, Forecasting and Supply Chain Performance Measurement with especial focus on emerging economies. He has worked as a trainer or consultant with various companies and to name a few: PPL, Hinopak, PAAPAM, SSGC, Dawlance, Al-Tuwairqi, SEF, Lakson Group, CDP-GoS and IITC-Hyundai.

**Ali Zulqarnain** Assistant Professor in Industrial and Manufacturing Engineering Department, and Ag. Director Industrial Liaison, NED University of Engineering and Technology. He is an alumnus of NED from where he did his Masters in Mechanical Engineering with specialization in Manufacturing and currently pursuing his PhD. in Quality Engineering. He is a certified and qualified Six Sigma Black Belt. His expert areas are Six Sigma, Statistical Process Control and Total Quality Management. He has written/reviewed number of Research Publications in the areas of Quality and Manufacturing. He has been associated with IBA and conducted Workshops on Applicative Six Sigma, and Cost of Quality. He also conducted several corporate training programs and completed consulting projects in industries related to his interest areas.

## LEARNING OUTCOMES

- The outcomes of this course are defined using Bloom's Taxonomy, which defines Levels of Cognition according to Complexity: Remember, Understand, Apply, Analyze, Evaluate, & Create.
- Contents of this workshop will be acquired by the participants at the level of cognition defined in "Topics Covered".

## TOPICS COVERED

- Context: Value of Six Sigma and Certifications; Six Sigma and the Organization; Organizational Goals, Drivers and Measures; Project Life- Cycles: DMAIC and DFSS (DMADV). [understand]
- Define: Project Selection; Voice of Customer; Project Management: Project Charter and Project Tracking; Old and New QC Tools; Process Characteristics: SIPOC and Process Flow Charting; Rolled Throughput Yield (RTY), Cost of Poor Quality (COPQ), Defects Per Million Opportunities (DPMO); Team Dynamics and Performance. [apply]
- Measure: Process Analysis; Basic Statistics and Probability; Data Collection and Presentation; Measurement System Analysis (MSA); Process Capability. [apply, analyze & evaluate]
- Analyze: Data Analysis; Modeling relationships between variables: Regression, Correlation and Multivari; Hypothesis Testing. [apply & analyze]
- Improve: Basics of Design of Experiment (DOE); Root Cause Analysis; Lean Tools. [understand & apply]
- Control: Statistical Process Control; Control Plan. [understand]
- Project: Participants have to complete and present their Six Sigma Implementation Projects. [create]

## Workshop Fees PKR 45,000/participant

Inclusive of Course material, IBA Workshop Certificate, Lunch, Refreshments & Business networking

Experience

## EXECUTIVE EDUCATION

Centre for Executive Education, IBA, Karachi

Center for Executive Education (CEE)  
Institute of Business Administration City Campus.  
Off Garden Road, Karachi-74400.

### For Further Information

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