



CBIS Business
Compliance
and Excellence

We Provide a Simple, Smart and
Affordable route to Lean Six
Sigma Training and Certification



SIX SIGMA GREEN TO
BLACK BELT UPGRADE



CLASSROOM
TRAINING

WHO WE ARE



At CBIS, we offer classroom training for Lean Six Sigma Yellow Belt, Green Belt and Black Belt courses under accreditation of International Association for Six Sigma Certification (IASSC) and the Council for Six Sigma Certification. We are also Exemplar Global Certified TPECS Provider for the various Lean, Six Sigma, Lean & Six Sigma training courses from introductory to advanced level in compliance with ISO 18404:2015 international standard.

Here is a handful of our clients:



COURSE OVERVIEW



This Six Sigma Green to Black Belt Upgrade course prepares participants to perform the role of a Six Sigma Black Belt. The Six Sigma Green to Black Belt Upgrade training materials comprise a comprehensive curriculum covering everything within the Six Sigma Body of Knowledge required to successfully complete Black Belt certification. After achieving this qualification, Black Belts utilise the newly acquired DMAIC methodology and the relevant tools during the execution of a project as a Project Manager as well as lead a team of Yellow Belts and Green Belts.

DURATION



4 Full days – 9 am to 5 pm

CERTIFICATION



After passing the knowledge exam and successful completion of the Six Sigma Black Belt Project Portfolio within 6 months, participants will be certified as Six Sigma Black Belt.

The certificate will be granted under Exemplar Global banner according to ISO 18404 international standard and includes the project title.

TARGET AUDIENCE



The Six Sigma Green to Black Belt Upgrade certification program is perfect for participants who are already Certified Six Sigma Green Belts who want to upgrade their knowledge to become a Six Sigma Black Belt.

WHAT IS INCLUDED



- ✓ Pre-course On-line Introduction Video
- ✓ Black Belt Course Material (Hard Copy)
- ✓ Minitab Exercises Manual (Hard Copy)
- ✓ Data files for Minitab practices
- ✓ One-month Minitab exercise support
- ✓ Black Belt project templates pack to be used for the Six Sigma Project
- ✓ Black Belt practice test
- ✓ Black Belt Certification Exam
- ✓ Black Belt Project Portfolio
- ✓ Six months project support service

PREREQUISITES



A Six Sigma Green Belt or Lean Six Sigma Green Belt Certificate issued by an accredited training service provider is a prerequisite for this course. Without this accreditation, CBIS cannot guarantee the adequacy of the Green Belt training. The Green Belt Body of Knowledge is not covered in detail during this course. Intermediate level numeracy and statistical knowledge are required.

COURSE OUTLINE



Introduction to Six Sigma

- DMAIC Methodology
- DMAIC Vs. DMADV

Define Phase

- Generating Project Ideas
- Project Selection Matrix
- Project Planning / Project Management
- Stakeholders Analysis
- Project Risk Assessment
- Communication Skills and Communication Planning
- Project Charter
- Cost of Poor Quality (COPQ)
- Voice of Customer (VOC)
- Critical to Quality (CTQ)

Measure Phase

- FMEA
- Different types of Data
- Population and Sampling
- Sample Size Calculation
- Stratification
- Data Collection Plan
- Measurement System Analysis (MSA)
- Accuracy and Precision
- Repeatability & Reproducibility (G R&R)
- Different Types of Variation
- Normal Distribution and Normality
- Data Transformation, Box Cox, Johnson
- Run Chart
- Individual Control Chart
- Discrete Statistical Distributions (Binomial, Poisson)
- Normal and standardised normal distributions
- Central Limit Theorem
- Process Capability Indices (Cp, Cpk, Pp, Ppk)
- Short Term and Long Term Sigma Level

Analyse Phase

- Statistical Cause Validation Tools
- Box Plot, Dot Plot, Main Effect Plot, Multi-vari Chart
- Hypothesis Test
- Simple Linear Regression
- Non-Linear Regression
- Multiple Linear Regression

Improve Phase

- Design of Experiment (DOE)
- Cost-Benefit Analysis
- Resistance Management and Force Field Analysis
- Motivation and Motivating Others
- Project Pilot
- Project Planning



Control Phase

- Self-Review and Self Development
- Individual and organisational changes
- Statistical Process Control
- Variable Control Charts (Xbar-R, Xbar-S, ...)
- Attribute Control Charts (C chart, P chart, ..)
- Advanced Control Charts (EWMA, CUSUM,...)
- Before and After Analysis
- Presentation and Report Writing Skills
- Project Closure

CONTACT US



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