



**Anti Corruption Acedemy (ACA),India
in Collaboration with
Corstra LLC Florida.**

Presents

Lean Six Sigma Green Belt
Helping You Navigate The Process Improvement Jungle

Trained by **Mr. Carroll Correll** who is the World Renowned Expert &
Master Black Belt of lean Six Sigma.

Registrations Opens in Mumbai & New Delhi
For any further query,Email at trainingacaindia@gmail.com

www.corstra.com / www.acaindia.net



Why Lean Six Sigma Green Belt??

In just the last few years, along with the downturn economy, more & more business industries have not only discovered, but have taken full advantage of what is known as Six Sigma training methods.

There are literally hundreds, if not thousands, of companies currently hiring Six Sigma green belts right now in an effort to bring about improvements to all aspects of their business such as customer relations, processing, & even profits.

A Green Belt certification not only benefits the person who holds it but also the company that hires them as well.

Just about all leaders in their industries that have trained or hired one of these Six Sigma professionals into their business have seen great function improvement in very little time. Green belts have learned the basic fundamentals of the Six Sigma program.

Production methods can also benefit from the skills a green belt possesses. A Green Belt's role in the Six Sigma Team includes being the main 'workhorse' of the operation.

Improve Your Organization's Efficiency, Effectiveness, and Economics



Anti Corruption Academy (ACA), India

Recognizing that corruption is a most significant roadblock in the improved governance, development & progress of our Country, Anti-Corruption Academy ACA aims to become the beacon that will guide the country & its citizens towards a culture & practice of integrity & accountability.

The need for such a pioneering institution is not only in India, but also Asia & all continents. ACA will engage with all stakeholders civil society, public servants, private sector, political parties, academia & media to tackle corruption at all levels & in all government & economic sectors. www.acaindia.net

CORSTRALLC, Florida

Offers clients in international organizations & developing countries superior quality internal control in governmental auditing infrastructure & process improvement services at a fraction of the cost of competitors such as those offered from much larger international auditing & consulting firms.

Our expertise in identifying needed management's internal controls was built on 30 years of experience at about all levels of governmental hierarchies Almost no challenge is too great for CORSTRA. www.corstra.com

Coaching, Teaching & Mentoring

It is our philosophy that we attain success only if the client is satisfied with our assistance to them. To gain the acceptance, we stay committed to our clients during & after the engagement.

1.Coaching - Instead of telling or directing, our client centric efforts involves listening, asking effective questions, summarizing, & paraphrasing. We take this approach very seriously as the one of the critical paths to accomplish our mission.

2.Teaching - We are well prepared with the mechanics of teaching auditing & how to improve programs & processes. We believe that to enhance our teaching, we must build up the confidence of our clients. We do this by asking positive & thought provoking questions that give them the opportunity of answering successfully & learning what needs to be imparted.

3.Mentoring - After the engagement, our philosophy is that our relationship does not end. Rather, through regular interaction, if appropriate, our guidance & assistance helps the mentee gain skills, perspective, & experience. Our staff members are attuned to what it takes to make individuals successful.



Mr Carrol Correl Brief Profile

From the devastation of Hurricane Andrew to the rebuilding of a country, CORSTRA Principal Carroll Correll, Sr. has done a remarkable job as an advisor, consultant Trainer. He has extensive experience of GAAP & international auditing standards & of improving the integrity of many types of both government & private programs.

From his last position as Director of Internal Audit for the US Army CYBER Command to safeguarding the integrity of billions of dollars in government expenditures as Chief Auditor of the Northern District of Afghanistan & of the entire country of Iraq for the US Army Corps of Engineers.

Mr. Correll was selected by the USA Department as the Senior Consultant to the Iraqi Board of Supreme Audit (BSA). He worked in concert with the State Department's Director of Commission on Public Integrity & IG programs pertaining to audit & financial functions & processes.

He directly interfaced with the Iraqi President of the BSA & their 1,800 employees on the subject of auditing & accounting (both International & GAAP standards). He regularly interacted with staff from UN, World Bank & Transparency International. Related to this position, was a presenter at Anti Corruption Academy in Iraq. He is the Advisory Board Member of India's first Anti-Corruption Academy, ACA.



Our Staff

All of our staff members are required to have at least years of progressively, successful experience solving operational and financial problems. Normally they have served at least as a Auditor within a governmental agency or a credible private institution. They are experienced in quickly identifying issues and offering reasonable solutions to fix them. We know that successful completion of an engagement is absolutely grounded in adequate planning. We believe we are subject matter experts in this area.

In addition, we employ tools available in Lean Six Sigma (LSS) to enhance the improvement of processes and programs if applicable. These tools help prevent “unintended consequences” during the improvement processes that we recommend.

We know that some people understand statistical models and also welcome pictorial representations of graphs, charts, and narratives available within LSS assets. Our product includes these at selected milestones during the engagements

The Principal, Carroll Correll, Sr. is well versed in LSS utilization. He has served as the de facto Deployment Director of a major organization and has a Master Black Belt Certificate from Villanova University. He received his Black Belt Certificate from the U.S. Army (Business Transformation Office) in 2009.

COURSE AGENDA

1.0 DEFINE PHASE

1.1 THE BASICS OF SIX SIGMA

1.1.1 Meanings of Six Sigma

1.1.2 General History of Six Sigma & Continuous Improvement

1.1.3 Deliverables of a Lean Six Sigma Project

1.1.4 The Problem Solving Strategy $Y = f(x)$

1.1.5 Voice of the Customer, Business and Employee

1.1.6 Six Sigma Roles & Responsibilities

1.2 THE FUNDAMENTALS OF SIX SIGMA

1.2.1 Defining a Process

1.2.2 Critical to Quality Characteristics (CTQ's)

1.2.3 Cost of Poor Quality (COPQ)

1.2.4 Pareto Analysis (80:20 rule)

1.2.5 Basic Six Sigma Metrics

a. including DPU, DPMO, FTY, RTY Cycle Time, deriving these metrics .

1.3 SELECTING LEAN SIX SIGMA PROJECTS

1.3.1 Building a Business Case & Project Charter

1.3.2 Developing Project Metrics .

1.3.3 Financial Evaluation & Benefits Capture

1.4 THE LEAN ENTERPRISE

1.4.1 Understanding Lean

1.4.2 The History of Lean

1.4.3 Lean & Six Sigma

1.4.4 The Seven Elements of Waste

a. Overproduction, Correction, Inventory, Motion, Overprocessing, Conveyance, Waiting.

1.4.5 5S a. Straighten, Shine, Standardize, Self-Discipline & Sort

2.0 MEASURE PHASE

2.1 PROCESS DEFINITION

2.1.1 Cause & Effect / Fishbone Diagrams

2.1.2 Process Mapping, SIPOC, Value Stream Map

2.1.3 X-Y Diagram

2.1.4 Failure Modes & Effects Analysis (FMEA)

2.2 SIX SIGME STATISTICS

2.2.1 Basic Statistics

2.2.2 Descriptive Statistics

2.2.3 Normal Distributions & Normality

2.2.4 Graphical Analysis

2.3 MEASUREMENT SYSTEM ANALYSIS

2.3.1 Precision & Accuracy

2.3.2 Bias, Linearity & Stability

2.3.3 Gage Repeatability & Reproducibility

2.3.4 Variable & Attribute MSA

2.4 PROCESS CAPABILITY

2.4.1 Capability Analysis

2.4.2 Concept of Stability

2.4.3 Attribute & Discrete Capability

2.4.4 Monitoring Techniques

3.0 ANALYZE PHASE

3.1 PATTERNS OF VARIATION

3.1.1 Multi-Vari Analysis

3.1.2 Classes of Distributions

3.2 INFERENTIAL STATISTICS

3.2.1 Understanding Inference

3.2.2 Sampling Techniques & Uses

3.2.3 Central Limit Theorem

3.3 HYPOTHESIS TESTING

3.3.1 General Concepts & Goals of Hypothesis Testing

3.3.2 Significance; Practical vs. Statistical

3.3.3 Risk; Alpha & Beta

3.3.4 Types of Hypothesis

3.4 HYPOTHESIS TESTING WITH NORMAL DATA

3.4.1 1 & 2 sample t-tests

3.4.2 1 sample variance

3.4.3 One Way ANOVA a. Including Tests of

Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results.

3.5 HYPOTHESIS TESTING WITH NON-NORMAL DATA

3.5.1 Mann-Whitney

3.5.2 Kruskal-Wallis

3.5.3 Mood's Median

3.5.4 Friedman

3.5.5 1 Sample Sign

3.5.6 1 Sample Wilcoxon

3.5.7 One and Two Sample Proportion

3.5.8 Chi-Squared (Contingency Tables)

a. Including Tests of Equal Variance, Normality Testing and Sample Size calculation, performing tests and interpreting results

4.0_IMPROVE_PHASE

4.1 SIMPLE LINEAR REGRESSION

- 4.1.1 Correlation
- 4.1.2 Regression Equations
- 4.1.3 Residual Analysis

4.2 MULTIPLE REGRESSION ANALYSIS

- 4.2.1 Non-Linear Regression
- 4.2.2 Multiple Linear Regression
- 4.2.3 Confidence & Prediction Intervals
- 4.2.4 Residual Analysis
- 4.2.5 Data Transformation, Box Cox

5.0 CONTROL PHASE

5.1 LEAN CONTROLS

- 5.1.1 Control Methods for 5S
- 5.1.2 Kanban
- 5.1.3 Poka-Yoke (Mistake Proofing)

5.2 STATISTICAL PROCESS CONTROL (SPC)

- 5.2.1 Data Collection for SPC
- 5.2.2 I-MR Chart
- 5.2.3 Xbar-R Chart
- 5.2.4 U Chart .
- 5.2.5 P Chart
- 5.2.6 NP Chart
- 5.2.7 X-S chart
- 5.2.8 CumSum Chart
- 5.2.9 EWMA Chart
- 5.2.10 Control Chart Anatomy C

5.3 SIX SIGMA CONTROL PLANS

- 5.3.1 Cost Benefit Analysis
- 5.3.2 Elements of the Control Plan
- 5.3.3 Elements of the Response Plan



JOIN OUR NEXT BATCH

4 Days Lean Six Sigma Green Belt Training & Certification Program

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THANK YOU !!