

## COURSE CONTENT

### Define

Overview of Lean Six Sigma, DMAIC, Financial Benefits of Six Sigma. The Impact of Six Sigma to the Organization, Defining Roles and Responsibilities Voice of the Customer, Translating Customer Needs in to Specific Requirements (CTQs) Project Definition, Project Charter, Developing a Business Case, Chartering a Team, Kano model, SIPOC Diagram. Define Phase Review & Summing up

### Measure

Data Collection Techniques & Plan, Data Attributes (Continuous Versus Discrete). Measurement System Analysis, Understanding Variation, Normal Distributions. Visually Displaying Data (Histogram, Run Chart, Pareto Chart, Scatter Diagram). Measuring Process Capability & Process Capability Indices, Calculating Process Sigma Level - Review

### Analyze

Basic Statistical Concepts, Data Segmentation and Stratification. Value-Added Analysis, Cause and Effect Analysis (a.k.a. Fishbone, Ishikawa). Verification of Root Causes, Determining Opportunity (Defects and Financial) for Improvement, Analyze, Phase Review, Hypothesis Testing: t-test, f-test, Regression Analysis, ANOVA & Phase Review & Summing up

### Improve

Screen Potential Causes, Discover Variable Relationship, Establish Operating tolerances, QFD. Failure Modes and Effects Analysis (FMEA), Poka Yoke (Mistake Proofing Your New Process), Tools: Brainstorming, Bench Marking, Multi-Voting Piloting Your Solution, Implementation Planning, Improve Phase Review

### Control

Define and Validate Measurement System on D's in Actual application, Determine Process Capability. Implement Process Control, Tools: Control Charts & Process Management Charts, Review

### Review and Exam

Revision of Key Concepts, Examination, Feedback and Photo sessions

### PROGRAM DATE & DURATION:

Green Belt: 12<sup>th</sup>, 13<sup>th</sup>, 14<sup>th</sup> & 15<sup>th</sup> JUNE 2018

**TIME: 9:30 AM to 6:30 PM**

### Training Venue:

**Central Tool Room & Training Centre, Bhubaneswar**

**MINIMUM ELIGIBILITY:** Degree/ Diploma in any discipline

**FEE:** Greenbelt: Rs 11,800/-

**NOTE:** Fees inclusive of GST, Course fees Includes study material, lunch/coffee/tea etc.

**SPECIAL DISCOUNT FOR STUDENTS/ MSMEs:**

Students getting registered in group 5 or more at a time

**FEE: Rs 9500/- (Inclusive of GST)**

### PAYMENT & REGISTRATION:

Mode of payment of fees: By DD in favour of

**Central Tool Room & Training Centre, Bhubaneswar**

Or

**Online Transfer** please visit [www.cttc.gov.in](http://www.cttc.gov.in)

### PATH FOR PAYMENT:

Select SBI Collect⇒ Select State⇒ Select Educational Institutions⇒ Select Central Tool Room & Training Centre⇒ Select Fees & other deposits

**Write in Remarks: Fees for Lean Six Sigma Greenbelt**

**Please send your Registration Form in the following address:**

**To:**

**Dr. S. K. Kar**

**Programme Director**

**Central Tool Room & Training Centre**

**B-36, Chandaka Industrial Area,**

**KIIT, Bhubaneswar-751024, Odisha**

**NOTE: Please Send Scanned Copy of Your Registration Form by Mail to Book Your Seat.**



Announces

## PROGRAMME

ON

# LEAN SIX SIGMA

## GREENBELT CERTIFICATION

Bhubaneswar

Certification from the  
Government of India organization



**LIMITED SEATS FOR THE PROGRAMME**

**MSME-TECHNOLOGY CENTRE  
CENTRAL TOOL ROOM AND TRAINING CENTRE**

Ministry of Micro, Small & Medium Enterprises  
Government of India

B-36, Chandaka Industrial Area, Bhubaneswar - 751024,  
Odisha E-mail: [corptrg@cttc.gov.in](mailto:corptrg@cttc.gov.in), [tqmgrcttc@gmail.com](mailto:tqmgrcttc@gmail.com)

Website: [www.cttc.gov.in](http://www.cttc.gov.in),

## ABOUT ORGANIZATION:

**CENTRAL TOOL ROOM & TRAINING CENTRE, Bhubaneswar, an organization under Ministry of Micro, Small, Medium Enterprises, Government of India** is pioneer in conducting various skill development training Programs in the field of Technical and management science in India and abroad. It provides training and consultancy services for the development of Micro, Small and Medium Enterprises. The center is engaged in conducting several skill development programs for various levels in techno-managerial field. Both Training and Production divisions are equipped with state of the art facilities for meeting emerging technological challenges of modern industries. It has acclaimed as one of the best organization in the country under Ministry of MSME, Government of India being appreciated by eminent personalities and experts from India & abroad who has visited the organization. It adheres to best practice of Quality, environment, safety, energy management system integrating with TQM & lean manufacturing practices. The organization has earned its name and fame being associated with ADA/HAL/ISRO/IISU/LPSC etc. It has been playing a key role in supplying various components, assemblies to the Light Combat Aircraft (LCA-Tejas) projects (Indigenous technology developed by Aeronautical Development Agency, Bangalore.). It has also significant contribution to national space mission by supplying high precision quality components for the successful **MANGALYAN MISSION** and **CHANDRAYAN MISSION** of the country.

## PROGRAMME OVERVIEW:

**Six Sigma** is one of the most demanding Training programme for both manufacturing & Service organizations in today's competitive world. Green Belts provide the support for a successful and sustained deployment and helps to remove the barriers, build right focus and gain momentum to ensure timely execution of projects. This workshop will emphasize upon the philosophy and approach to achieve enterprise excellence using Six Sigma while providing participants with an understanding of the Green Belt's role in project execution.

CTTC brings to you high end training programme leading to certification. This is a tailor made course to meet business specific requirement. This programme will not only add great value to Individual's profile but will also yield high ROI (Return on Investment) from organizational point of view as certified individuals will be trained to mentor projects with financial savings envisaged.

## Day wise Program

Day 1	• Lean Overview, Six Sigma Overview, Project Charter, Define Phase, Process Map
Day 2	• Descriptive Statistics, Graphical Summary, Current VSM, Lean Simulation
Day 3	• Process Mapping, Measurement System Analysis, FMEA, Cpk
Day 4	• Hypothesis Testing, Future VSM, Control Charts and Control Plan

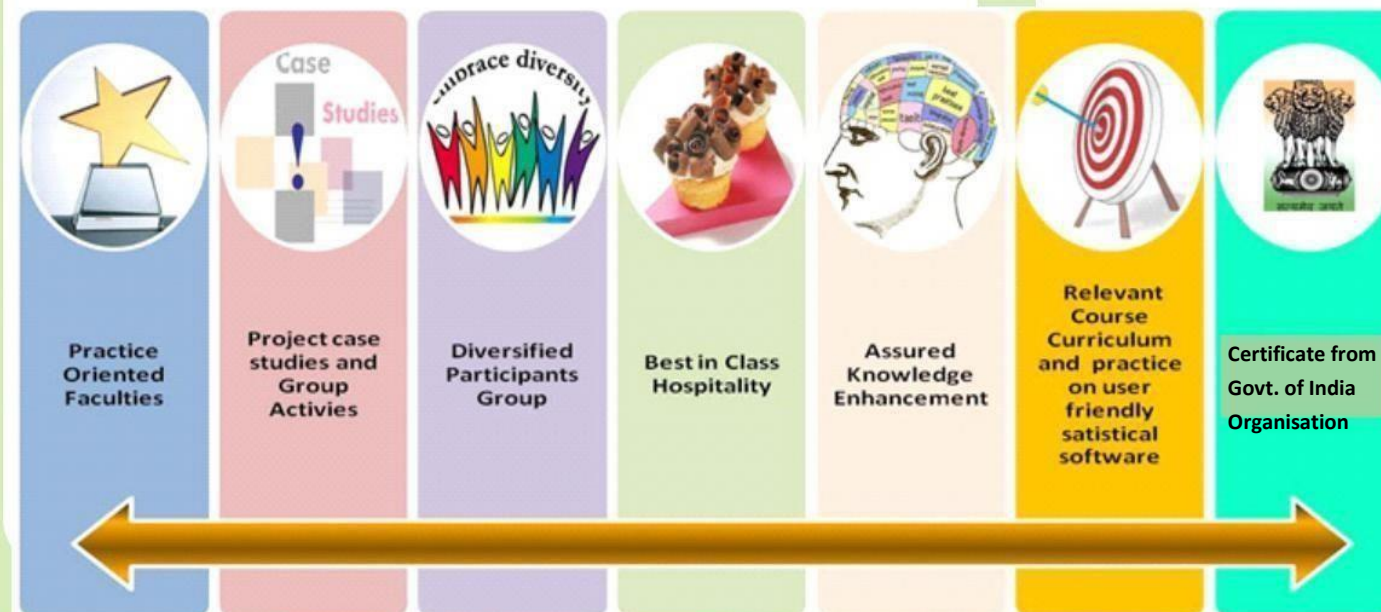
## Exclusive Benefits of Our Six Sigma Green Belt Training

- ☞ Every course is taught by a Black Belt/ Master Black Belt Trainer with real world knowledge & rich industry experiences.
- ☞ Our Six Sigma Green belt program includes Examination and Certification from a Govt. of India organization.
- ☞ Participants are given sample of Basics Projects.
- ☞ Generic Project Charter examples.
- ☞ Hands on practice in use of Basic QC Tools & SQC Tools.

## WHY TO JOIN:

- ☞ It increases the employability of candidates in MNCs and Corporate sectors.
- ☞ Creates and opportunity for taking higher responsibility and improvemental projects in the organization.
- ☞ Adds value and credibility to the profile by adding Lean Six Sigma Greenbelt Qualification.
- ☞ First milestone for career aspirant in the field of Operation/ Quality management and Six Sigma career opportunities.
- ☞ As most demanding professional enhances opportunity for getting higher salary benefits in the organization.

## ADVANTAGES:



## Qualifying Criteria:

- Attending all the training sessions compulsory
- Class work : 10 marks,
- Assignment work : 30 marks
- Written test duration 2 hrs. for 60 marks

Eligible to qualify as Six Sigma Green Belt holder: 50% score in each and 70% in aggregate

**Note:** The candidates unable to qualify in written test 1st attempt may be given a second chance to reappear the examination as decided by CTTC within 3months, Subject to meeting other qualifying criteria.

## ISSUE OF CERTIFICATES:

- The participants attending the programme for all the sessions are compulsory.
- On last day of the session a written examination test for a period of two hours at par American Society of Quality (ASQ) will be conducted by the organization. On successfully qualifying the examination, certificate of Green Belt shall be issued to the qualifying participants within 2-3 weeks after the completion of the programme.

## CONTACT US FOR ANY QUERY / REGISTRATION:

(Programme Co-coordinator) Mob- 09937006104, 09776239785

E-MAIL: corptrg@cttc.gov.in, tqmtrgcttc@gmail.com

**REGISTRATION:** Send your application form being duly filled, DD for registration along with pass port size photograph. Registration form can be downloaded from the website [www.cttc.gov.in](http://www.cttc.gov.in)

MSME sponsored candidates will have to forward their application through the organization to get 10% discount in fee.

Scanned copy of the application form and DD may be sent by E -mail in advance for ensuring the registration and confirming the participation.

