



सत्यमेव जयते

**MSME**

MICRO, SMALL & MEDIUM ENTERPRISES

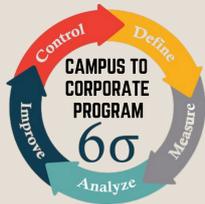
सूक्ष्म, लघु एवं मध्यम उद्यम

# CALL FOR FACILITATION CENTRES

FOR THE YEAR 2023-24

Universities | Colleges | B-Schools

for setting up

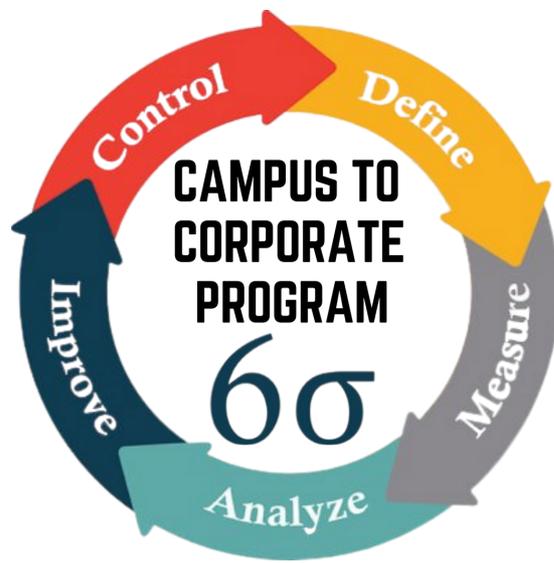


Centre for Process Excellence  
**Lean and Six Sigma**

Let's empower Indian graduates with  
employability & entrepreneurial skills



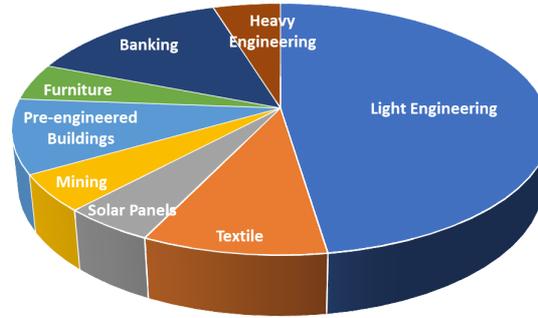
Team Campus to Corporate Program,  
MSME-Technology Development Centre,  
#65/1, CFTI Block, Room No.1, GST Road, Guindy, Chennai-600062



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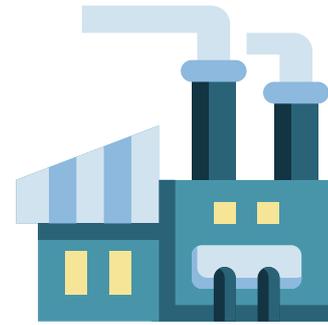
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## EXECUTIVE SUMMARY

- MSME-TDC, Chennai is looking to appoint Facilitation Centres (FC) across Tamilnadu and all metro cities across India to enhance the employability and entrepreneurial skills of graduating students studying Engineering, Management, Arts & Science in Indian Institutions.
- The FC is responsible for spreading continuous improvement and process improvement thinking and skills such as systematic problem solving, data-driven decision making, project management, team management, and communication management among graduating students and working professionals by conducting programs suggested by MSME-TDC, Chennai.
- Appointment of FC is purely on First Come First Served Basis, subject to fulfilling the basic infrastructural requirements and ability to train the minimum expected number of participants.
- FC must make an advance payment of INR 1,18,000 towards the training fee (online mode) for 100 candidates on the yellow belt body of knowledge at the time of signing the Memorandum of Understanding.
- The MoU will state the common intention to upskill Indian graduates with industry-relevant skillsets.
- Refer to the recent communication regarding the last date for submitting the application. For more details, read the complete document and contact our program coordinators.



**100+ Industries**



**40+ Institutions**



**2500+ Professionals**



**2000+ Students**



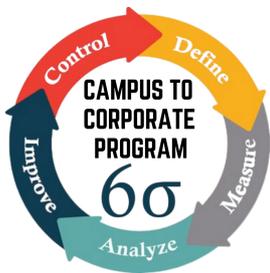
## ABOUT MSME-TDC, CHENNAI

One of the main objectives of the MSME Technology Development Center, Chennai is to provide industry-relevant, need-based training for unemployed youth/college graduates, working professionals, and industrial organizations to achieve employability and entrepreneurial skills. The institution also provides research and consultancy services in various areas such as Lean Management, Six Sigma, and Operational Excellence to help micro, small, medium, and large industries achieve their Quality, Productivity, and On-time delivery goals. We conduct training on industry-recommended curricula for different segments like Information Technology, Non-IT, Manufacturing, Management and Accounts, and Finance courses at nominal govt. pricing for the benefit of the student community.

We help industrial organizations across all domains to attain best-in-class performance in their operations to boost Productivity, Quality, and On-time delivery of products and services.

Our vision is to upskill professionals working in middle and senior-level managerial and leadership roles, and young entry-level graduates to significantly improve their ability to contribute to organizations' growth and business results. So far, we have helped 1000 plus industrial organizations, 40 plus higher educational institutions, 2500 plus working professionals, and 2000 plus entry-level graduates.





# ABOUT CAMPUS TO CORPORATE PROGRAM

Campus to Corporate Program is an initiative by MSME-Technology Development Centre, Chennai to empower Indian graduates with employability and entrepreneurial skillsets. Problem-solving, Decision-making, and Project Management skills are essential to delivering results from industrial projects in real time. The ability to demonstrate these skills is very important to grab entry-level job roles in good industries. The same set of skills will help them to move up the corporate ladder and grab high-paying managerial roles soon after their employment.

Pre-final and final-year students of Engineering and Management streams will be trained on DMAIC methodology. Participants will be provided hands-on exercises to make sure they understand the step-by-step approach of Lean Six Sigma projects starting from problem identification to root cause validation, solution generation, and documentation of the entire project in a professional way. With Industry 4.0, new applications such as Artificial Intelligence, Data Science, Machine Learning, AR/VR/Metaverse with Unity, Cloud Computing, the Internet of Things, 3D printing, Autonomous Robotics, Drones, Electric vehicles, and more are emerging in a fast pace. However, to use these complex applications, industries use Lean Six Sigma tools and techniques to optimize and streamline processes and stabilize them.

## CENTRE FOR PROCESS EXCELLENCE: **LEAN & SIX SIGMA**

Under the initiative of the Campus to Corporate Program, the Facilitation center must set up a “Centre for Process Excellence: Lean & Six Sigma” on their campus. This Centre will conduct training and industrial consulting projects involving students, working professionals, and industrial organizations. This will bring all of them under one umbrella. The success of the Centre for Process Excellence will allow the institution to generate an additional source of revenue besides strengthening the Institute’s research and consulting capabilities.

This will add credibility and visibility through enhanced Quality of Projects and Project Reports, Research Publications, higher ratings in NAAC and other accreditations, Funding opportunities, Excellent placement opportunities, etc. The dimensions of this collaboration are many and would evolve with time and the quality of inputs provided by both parties.



# COURSES OFFERED UNDER C2C PROGRAM



The following short-term courses will be offered with Government of India Certification. These courses will be offered at a subsidized fee for the students of the facilitation center. The course fee will range from INR 1180 to INR 3540. The exact details will be shared in the MoU to be signed between MSME-TDC, Chennai & Facilitation Centre.

S.No.	Course Name	Duration	Target Audience
1	Lean Six Sigma Yellow Belt	12 Hours	Pre-final & final year students
2	Lean Six Sigma Green Belt	24 Hours	Pre-final & final year students
3	AI / ML / Data Science with Python	12 Hours	Pre-final & final year students
4	AR / VR / Metaverse with Unity	12 Hours	Pre-final & final year students
5	AWS Cloud Computing	12 Hours	Pre-final & final year students
6	Microsoft Azure Cloud Development	12 Hours	Pre-final & final year students
7	Internet of Things	12 Hours	Pre-final & final year students
8	Autonomous Robotics	12 Hours	Pre-final & final year students
9	3D Printing	12 Hours	Pre-final & final year students
10	Drones	12 Hours	Pre-final & final year students
11	Electric Vehicles	12 Hours	Pre-final & final year students





# INSTITUTIONS BENEFITED FROM THE PROGRAM

## CHENNAI ZONE

- Annai Velankanni College of Arts & Science, Chennai
- AMET University, Chennai
- Dr.MGR Educational & Research Institute, Chennai
- Government College of Technology, Bargur
- Loyola – ICAM, Chennai
- Loyola Institute of Technology, Chennai
- Meenakshi College of Engineering, Chennai
- Madha Engineering College, Chennai
- New Prince Bhavani College of Engg., Chennai
- Sairam Group of Institutions, Chennai
- Sathyabama University, Chennai
- Saveetha University, Chennai
- Sree Sastha Institute of Engg. & Tech., Chennai
- Vel's Institute of Science, Technology, Chennai
- VelTech Hightech Engineering College, Chennai
- Velammal Institute of Technology, Panchetti

## MADURAI, TIRUNELVELI ZONE

- Francis Xavier Engineering College, Tirunelveli
- Kalasalingam University, Srivilliputhur
- SKP Engineering College, Thiruvannamalai
- Velammal Engineering College, Madurai
- Sethu Institute of Technology, Virudhunagar

## COIMBATORE ZONE

- Coimbatore Institute of Technology, Coimbatore
- Government College of Technology, Coimbatore
- Karpagam Engineering College, Coimbatore
- PSG Institute of Tech., Coimbatore
- Sri Krishna College of Engg. & Tech., Coimbatore
- Rathinam College of Arts & Science, Coimbatore

## SALEM, ERODE & NAMAKKAL ZONE

- Dhirajlal Gandhi College of Technology, Salem
- Excel Engineering College, Komarapalayam
- K.S.R. College of Technology, Tiruchengode
- Knowledge Institute of Technology, Salem
- KPR Institute of Engg. & Technology, Coimbatore
- Muthayammal Engineering College, Rasipuram
- Surya Group of Institutions, Salem

## OTHER ZONES

- St. Xavier's Catholic College of Engineering, Nagercoil
- Pollachi Mahalingam Engg. College, Pollachi
- Indra Ganesan College of Engineering, Manikandam
- Karpaga Vinayagar College of Engineering, Chenalpeta



A total of 4488 participants were awarded the Lean Six Sigma Belts in the last 3 years. 2333 participants are from academic institutions and the remaining are from industrial organizations.

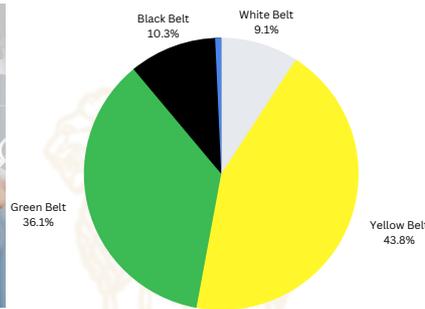
**White Belt Certification:** So far, 410 professionals are certified as White Belts.

**Yellow Belt Certification:** So far, 1964 professionals are certified as Yellow Belts. It includes 1566 students and 398 working professionals

**Green Belt Certification:** 1619 professionals are certified as Green Belts. It includes 767 students and 852 working professionals

**Black Belt Certification:** 463 working professionals are certified as Black Belts

**Master Black Belt Certification:** 32 professionals are certified as MBBs



## WHAT IS LEAN SIX SIGMA?

Lean Six Sigma in simple terms is a scientific approach and methodology for process improvement. By imparting LSS skillsets, we would like to enable our graduates and postgraduate students to understand that, every real-time industrial project is nothing but a set of actions, taken to improve an existing process, using a step-by-step methodology, and by using appropriate tools and techniques to deliver sustainable and better results within the planned timeline.

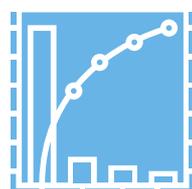
“Process Improvement” is the key to improving business results in any organization. Hence, industries train their employees and managers regularly on tools and techniques of Quality Control, Management, Problem-Solving, Decision making, Project Management, Team Management, Communication Management, etc. to ensure they deliver results from every single project that focuses on “Process Improvement”.

Hence Six Sigma can be used in the following manner

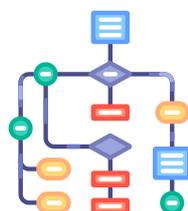
- For students, it provides a Methodology and tools, and techniques for real-time project execution
- For researchers, it is a Hypothesis Testing and a set of tools and techniques for data-driven and fact-based decision-making
- For working professionals, it provides the skills to ensure they grow on the corporate ladder faster.
- For entrepreneurs and organizations, it is an approach to achieving Operational Excellence



Scatter Diagram



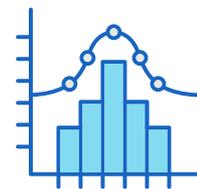
Pareto Plot



Process Flow Chart



Fish Bone Diagram



Histogram

# WHY LEAN SIX SIGMA TRAINING IS IMPORTANT FOR STUDENTS?

Major recruiters prefer certified students, getting an LSS certification can lead to better job opportunities. Big brands such as Amazon, Google, TCS, etc. have connected the career ladder of their employees with six sigma belt certifications. Students can join these companies and grab top managerial roles & climb up the corporate ladder. Lean Six Sigma Belt holders are in great demand in large companies. Adapting to the changing demands of the industry is important in any profession. LSS certification helps students become a specialist in Process Improvement and Lean Techniques. There are two levels of certification viz Yellow Belt & Green Belt.

**Yellow Belt Certification:** Yellow belt is an intermediate level of qualification in the Ladder of six sigma. Yellow belts assist green belts in six sigma projects. Yellow belts undergo formal training for about 12 hours in six sigma.

**Green Belt Certification:** A Green Belt will usually complete one or two six sigma projects per year, usually as a team member or project team leader. Green belts undergo formal training for about 24 hours in six sigma.

The Centre for Process Excellence will prepare students to demonstrate project management, problem-solving, and data-driven decision-making skills while working on industrial projects besides preparing them for the certification requirements. There are various reasons that make Lean Six Sigma certifications delightfully useful.

- Better Skill sets to interact with industries
- Possibilities of securing a paid internship
- Applied across all Industries
- Better Job roles and compensation package for LSS professionals.
- Common job roles: QA / QC Manager / QC Inspector / Business Excellence Manager / Operations Manager / Team Lead / Process Excellence Manager / Continuous Improvement Manager / Quality Analyst / Data Analyst / Business Analyst / Process Analyst etc.
- The compensations for LSS-certified professionals are very attractive.



**Green Belts Salary Range : 3.75 to 18 Lakhs per annum**

# WHY DO INDUSTRIES ADOPT LEAN & SIX SIGMA?

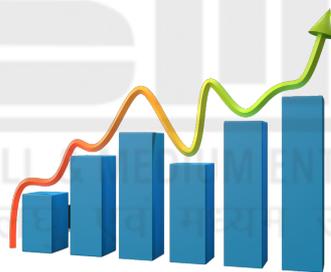
Organizations large and small in every industry can increase profits, reduce costs, and improve collaboration using Lean Six Sigma. LSS can be applied to any industry as it is not only a set of tools and methodology to do projects, but it is also a way of life.

It uses quality management and statistical methods to create a special infrastructure of people within the organization viz. Yellow Belts, Green Belts, Black Belts, and Master Black Belts to improve quality, and reduce the cost of poor quality, operational cost, and risk.

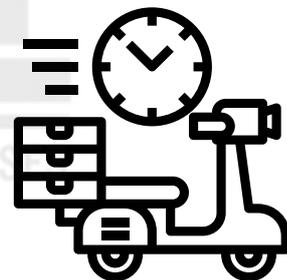
Lean Six Sigma ensures defect-free products to customers and improves work safety, and morale of employees while maximizing the profits of the Organization.



**Best-in-class Quality**



**Productivity**



**On-time delivery**



**Profit Maximization**



**Brand Image**



**Legal Compliance**

# ROLE OF A FACILITATION CENTRE

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- Set up an in-campus "Centre for Process Excellence - Lean & Six Sigma" facilitation center to spread the culture of continuous improvement among students, faculty, and industries in and around the facilitation center
- The facilitation center must have a training hall with a minimum of 100-seating capacity and audio-visual systems
- Announce and guide students to use DMAIC methodology and its tools and techniques for industrial projects
- Commitment to training a minimum of 100 students as six sigma yellow belts at the time of signing the MoU
- Nominate at least 10 faculty members for the Six Sigma Blackbelt level programs
- Nominate students for the year-end internship programs to be conducted by MSME-TDC, Chennai
- Appoint one black belt-trained faculty coordinator for effective coordination and implementation

## BENEFITS OF BECOMING A FACILITATION CENTRE

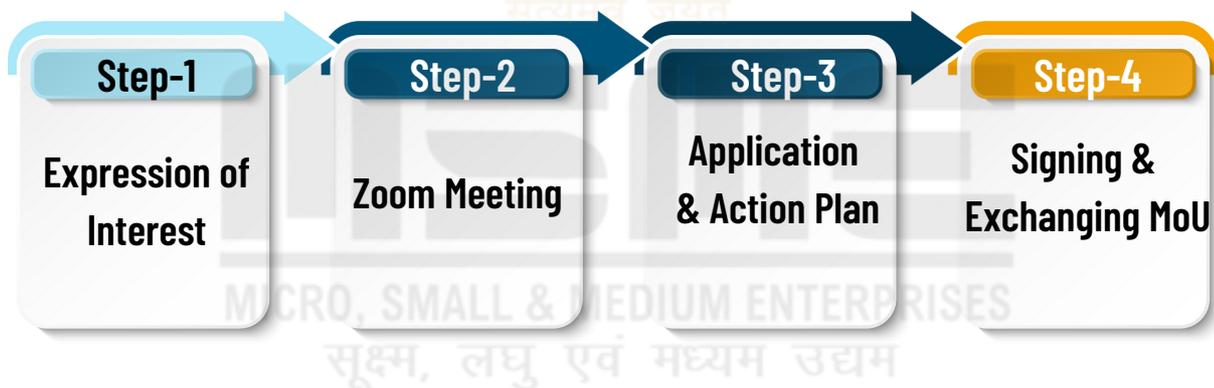
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- Conduct MSME-certified programs at a subsidized fee
- Facilitation Centre will be endorsed by MSME-TDC, Chennai
- Best-performing institutions will be recognized by MSME-TDC, Chennai, and hence better visibility in the industry and student community
- Conduct Faculty development programs and workshops in collaboration with MSME, Chennai
- Engage in conducting Guest Lectures, Awareness Workshops, and FDPs on industry-relevant topics such as SPC, MSA, DoE, Correlation, Regression Analysis, Hypothesis Testing, etc. by Industry Experts
- Engage the trained resources in Industrial consulting with the help of our expert consultants

# HOW TO BECOME A FACILITATION CENTRE?

There are just 4 simple steps to become a facilitation centre of MSME-TDC, Chennai

- **Step-1:** Send an expression of interest to become a facilitation centre of MSME-TDC, Chennai. It must be signed by the head of the institution on the letterhead. The letter must clearly convey the commitment of the institution to train a minimum of 100 students as six sigma yellow belts within 6 months of establishing the facilitation center
- **Step-2:** Attend a Zoom meeting with program officials
- **Step-3:** Submit the application and relevant details required for the signing of the MoU
- **Step-4:** Memorandum of Understanding to be signed and exchanged



**In case of queries, feel free to contact us**

**Dr.Gopal Sivakumar,**  
Head - Campus to Corporate Program,  
MSME-Technology Development Centre,  
65/1, GST Road, Guindy, Chennai, Tamilnadu 600032  
Phone: 044-25501529, 8825942908  
E-mail: [campustocorporateprogram@gmail.com](mailto:campustocorporateprogram@gmail.com)

**Send your expression of interest on letterhead to**

**Shri.A.Kolanjivel,**  
Deputy Director, MSME-Technology Development Centre,  
65/1, GST Road, Guindy, Chennai, Tamilnadu 600032  
Phone: 044-25501529, 8610450227  
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