



CONTACT DETAILS



9952507080



prabhulean14@gmail.com



Coimbatore, Tamilnadu

ACADEMIC BACKGROUND

Ph.D. in Lean Manufacturing (2021)
PSG College of Technology, Coimbatore

M.E in Lean Manufacturing (2011)
PSG College of Technology, Coimbatore

B.E in Mechanical Engineering (2008)
St. Joseph's College of Engineering, Chennai

D.M.E in Sandwich (2003) CIT, Coimbatore

SKILL

- Process mapping
- Root cause analysis
- Problem solving activities
- Preventive maintenance
- Predictive maintenance
- Value stream mapping
- Waste identification
- Productivity enhancement
- Quality Improvement

RESEARCH INTERESTS

- ✓ Integrating lean & Industry 4.0 concepts
- ✓ Ergonomics VSM
- ✓ Sustainable VSM
- ✓ Green 5S & 6S
- ✓ Sustainable Manufacturing
- ✓ Agile Manufacturing
- ✓ Lean Supply chain management
- ✓ Agile Supply chain management
- ✓ Green supply chain management
- ✓ Green manufacturing paradigm through lean tools

SOFTWARE PROFICIENCY



Dr. N. SENTHIL PRABHU

Lean Six Sigma Implementer, Trainer and Consultant



: <https://www.linkedin.com/in/dr-n-senthil-prabhu-ph-d-6a681447/>

PROFILE SUMMARY

Expert in Lean six sigma having **16 years** of experience in lean tools and techniques, practicing, implementing and providing consultation to the manufacturing and service sector. Have made result driven achievements throughout my career helping business to achieve world class excellence through lean practices. Aspiring for a career as a lean Six Sigma **Practitioner** and Lean Six Sigma **Trainer** where I would get opportunities to enhance my knowledge in resource management and utilize the same for the growth of the organization

NOTABLE CAREER ACHIEVEMENTS

- Trained **6000+** professionals in Lean Manufacturing, Lean Six Sigma Green Belt, Black Belt and Master Black Belt, TQM, TPM.
- Achieved **cost saving around 12 crores** in the Garment Industry, Printing Industry located in Tirupur by implementing lean six sigma under "Lean Manufacturing Competitiveness Scheme for MSME's and National Manufacturing Competitiveness Programmed initiated by Quality council of India and Ministry of MSME.
- So far, I have **trained 56** (and counting) Lean Six Sigma Black belt batches under the certification banner of TUV SUD and MSME.
- Implemented lean six sigma projects to **48 organizations** in a variety of industries, including garment, dyeing, spinning mills, and printing.
- Lean Six Sigma black belt holders were mentored in identifying and implementing projects.
- As a visiting faculty member, I designed the curriculum and taught a course on Lean Six Sigma and Data Analytics to MBA students at NIRMA University in Gujarat.

PROJECTS IMPLEMENTED

- For the garment and engineering industries, I performed process flow analysis, line balancing tasks, and built a cellular manufacturing system. Achieved a significant improvement in productivity.
- Process mapping activities, NVA, VA, and ENVA analysis for the garment and engineering industries were accomplished.
- Implemented 5S and visual management tool for garment, Automobile & Textile industry achieved productivity & empowered the shopfloor people.
- Achieved a First Past Yield (FPY) of around 70% to 95% in the garment sector.
- Implemented RFID enabled cellular manufacturing system for automobile industry
- Projects to reduce lead times in the garment and automobile industry
- Root cause analysis and problem-solving efforts were performed in a variety of sectors.
- In the garment industry, a reduction in change over time was implemented, which reduced style to style change over time and increased on-time delivery (OTD).

Work Experience

NAME OF THE ORGANIZATION	DESIGNATION	PERIOD
Independent Consultant & Trainer	Lean Six Sigma	28 Sep 2020 to till date
Simplilearn Niche Brains Skillup Upgrad	Freelance Consultant & Trainer (Lean Manufacturing, ML & Lean Six Sigma)	28 Sep 2020 to till date
Intelligence Quality, Chennai	Consultant & Trainer (Lean Six Sigma)	28 Aug 2019 to till date
TUV SUD, Tirupur	Consultant & Trainer (Lean Six Sigma)	31 Jul 2017 to 31 Jul 2019
Troika Learning Solutions, Bangalore	Consultant (Lean Manufacturing)	18 Aug 2016 to 15 Feb 2017
Dr.NGP Institute of Technology, Coimbatore	Lead - Internal Quality Assurance Cell	1 Apr 2013 to 31 Mar 2016
GNA Udyog Limited, Punjab	Lean Manufacturing Engineer	15 Jun 2011 to 9 Nov 2012
Meera Industries, Chennai	Graduate Engineer Trainee	18 Jun 2008 to 22 Jun 2009
LMW Limited, Coimbatore	Diploma Apprentice Trainee	15 Dec 2003 to 15 Jan 2004

Empanelment

- Quality Council of India (**QCI**), New Delhi. Empaneled Lean Manufacturing Consultant
- Indian textile accessories & Machinery manufacturers association (**ITAMMA**), Mumbai. Expert panel member.
- Zero Defect Zero Effect (**ZED**) New Delhi, Certified Consultant.

Membership

- The Institution of Engineers India (**MIE**)- M1651484
- Indian Institution of Industrial Engineers (**IIIE**)- 11173
- Indian Society for Technical education (**ISTE**)- LM99366
- International Society of Automation (**ISA**)- 33674430
- International Association of Engineers (**IAENG**)- 162823
- Indian Society for Research and Development (**ISRD**)- M4150902464

Book Published

- GREEN MANUFACTURING THROUGH LEAN TOOLS: A Framework to Achieve Green Productivity for Manufacturing Industry
(Notion Publication Press)-2020

Short Term Courses attended

- Design Thinking: From Insights to Viability for Engineers (*AICTE, New Delhi*)
- Sensor Data Analytics
(*Indian Institute of Information Technology Kottayam*)
- Application Areas of Data Analytics
(*Indian Institute of Information Technology-Allahabad*)
- Practice Managers for Industry 4.0
(*Indian Institute of Management, Sirmaur*)
- Innovative and Inventive Problem Solving (TRIZ)
(*AICTE, New Delhi*)
- Statistical tools for Textile Research
(*AICTE, New Delhi*)
- Rejuvenating Learning with World Class Business Improvement Approach - Lean Six Sigma
(*AICTE, New Delhi*)
- Sustainable Product Design and Manufacturing
(*AICTE & Shri Mata Vaishno Devi University*)
- Instructional Design and Delivery System
(*NITTTR- Chennai Dr.NGP Institute of Technology*)

Journals Published

- Design of conveyor for ergonomics of material handling systems
(*International Journal of Mechanical, production Engineering Research & Development*)-2020

Personal Details

- Language known

Read –English, Tamil

Speak – English, Tamil

Write - English, Tamil

- Green manufacturing in garment industry through the application of fundamental lean tools
(*International Journal of services and operations management*)-2019
- Development of lean assembly line using 5S & RFID technique
(*ANNALS of Faculty Engineering International Journal of Engineering*)-2017
- A Systematic Lean Approach and Its Improvements in a Manufacturing Assembly Line-2018
(*International Journal of Management, Technology and Engineering*)

CERTIFICATION

Trends in 3D Printing & Manufacturing Techniques



Digital Transformation for SMEs



Robotic Process Automation using UiPath



Introduction to IoT (*Cisco Networking Academy*)



3D Printing Leading Towards Industry 4.0 (*Ministry of MSME Technology Development*)



Integrating Lean Manufacturing System and Industry 4.0 Concept (*Asian Productivity Organization*)



Logistics & Supply Chain Management (*Ministry of MSME Technology Development Centre*)



QMS 9001:2015 Internal Auditor (*Ministry of MSME Technology Development Centre,*)



EMS 14001:2007 Internal Auditor (*Ministry of MSME Technology Development Centre*)



Internet of Things (*Ministry of MSME Technology Development Centre, Coimbatore*)



Material Flow Cost Accounting (ISO14051) (*Asian Productivity Organization, Tokyo, Japan*)



Green Productivity and the Environmental Management System (ISO 14001) (*Asian Productivity Organization*)



Lean Six Sigma Black belt (*Ministry of MSME Technology Development Centre*)



Trainers Training Program on 5S – Work Place Management (*Quality Circle Forum of India, Coimbatore*)



Lean Six Sigma Green belt (*Ministry of MSME Technology Development Centre, Coimbatore*)



Lean Six Sigma Master black belt (*Ministry of MSME Technology Development Centre*)



Link for Glimpses of Few Lean Six Sigma Concepts Implementation and Training photos:

https://drive.google.com/drive/folders/14FTJjKw1Br_1ZLk72gIhSpf1M-7D6xJj?usp=sharing

Link for clients' testimonials:

<https://drive.google.com/drive/folders/1AXQTQvGdyxawpEAbTjGQmRUCB4dieuQW?usp=sharing>