



PE WSQ Programme in Implement Lean Manufacturing (48 hours)

Productivity improvement is the only sustainable way to increase value-add of an organisation and is the key driver of business growth.

Under the Singapore Workforce Skills Qualifications (WSQ) system, this programme aims to achieve productivity breakthroughs for an organisation by educating trainees in Lean principles and equipping them with Lean techniques that can be implemented in the workplace.

A systematic approach to identifying wastes (non-value-added activities) and conducting root-cause analyses, together with practical lean techniques, is taught in classroom lectures; while the mentoring sessions facilitate the application of lean techniques on-site.

Upon completing the course, trainees become *lean champions* and *lean leaders* who will commence on their own lean journeys, train colleagues, and foster lean culture within their organisations for continuous productivity improvements and long-term benefits.

Lean is applicable to manufacturing and service industries such as medtech, electronics, precision engineering, marine engineering, printing, packaging, furniture, logistics, food & beverage, and retail, among others.

Who Should Attend

- Senior management and directors
- Operations or supply chain directors
- Managers in departments of procurement / production / QA&QC/ logistics / HR / admin
- Supervisors / engineers / designers
- Senior staff/managers in business process management and operational improvement

When & Where

Please contact our course leaders for the course schedule.

Training Venue:

Singapore Institute of Manufacturing Technology
2 Fusionopolis Way, Innovis, Level 8, Singapore 138634

Please contact the Knowledge Transfer Office should you wish to have a corporate class conducted at your company's premises.

Lean Implementation Techniques include:

- Continuous Improvement (Kaizen)
- Root Cause Analysis (RCA)
- 6S
- Visual Management
- Standardised Work
- Value Stream Mapping (VSM)
- Business Process Streamlining (BPS)
- Plant Layout
- Single Minute Exchange of Die (SMED)
- Total Productive Maintenance (TPM)

Lean Techniques can be implemented across different departments, including:

Warehouse, Purchase, and Logistics | Factory or Workshop Production | Finance and Administration | Sales and Marketing | Customer Management

About the Course Leaders



Ms Laura Xu, Principal Research Engineer at SIMTech, is the Lead for the Lean Manufacturing Initiative. Through this Lean Implementation Programme, and together with her team, she has helped more than 30 local companies achieve waste reduction and productivity improvements. She has been working in the Lean arena for more than 15 years and has certifications in Lean Sigma Black Belt, Production & Inventory Management (CPIM) and Project Management Professional (PMP). She obtained her Masters in Engineering from the Nanyang Technological University, Singapore and a Masters in Economy Management from the Tsinghua University.



Dr Wang Feng Yu is a Senior Research Engineer at SIMTech who has over 15 years of experience in operations management (OM) and in OM-oriented research and industry projects. His main areas of focus cover of production planning, inventory management, business process streamlining, Lean manufacturing, and supply chain management. His key capabilities include system analyses and modelling as well as optimisation using OR technologies like linear programming, dynamic programming, and simulation. Dr Wang obtained his Masters Computer Engineering from the Northeastern University, China and is also certified in Production and Inventory Management (CPIM) by APICS.



Mr Loong Meng Onn is a Senior Consultant with the Manufacturing Productivity Technology Centre (MPTC) at SIMTech. Mr Loong has considerable experience in manufacturing technology road mapping and Lean productivity improvement projects, having worked with Matsushita Electronics in Engineering & Automation for eight years. He has another ten years of experience with Philips Electronics where, as the Senior Manager for Production Systems & Automation, he had set up the company's factory in Batam, Indonesia. He has a degree in Mechanical Engineering.



Mr Lim Yi Yung is a Senior Consultant with the Manufacturing Productivity Technology Centre (MPTC) at SIMTech. Mr Lim has experience in Plant Automation, Training, Plant Construction, Operations, and Business Development. Working in the industry, he has managed process optimising projects and inventory control systems for higher capital efficiency and has re-designed work and reorganised department structures to achieve Lean operations for higher workforce stability and productivity. Mr Lim has an MBA from the Nanyang Business School, Singapore, and a Mechanical Engineering degree from OSU, USA.

Course Fee and Funding

- The full course fee for this module is S\$4,000 before course fee funding & GST.
- All Singaporeans and Permanent Residents aged 21 years and above can enjoy course fee funding of up to **70%** of the course fee.
- Singaporean or Permanent Resident employees fully sponsored by SMEs can enjoy course fee funding support of up to **90%** of the course fee under the **Enhanced Training Support for Small & Medium Enterprises (SMEs)** scheme, subject to eligibility criteria.
- Singaporeans aged 40 years and above can enjoy course fee funding of up to **90%** of the course fee under the **SkillsFuture Mid-career Enhanced Subsidy (MCES)**.
- Singaporeans aged 35 years and above with earnings not more than S\$2,000 per month can enjoy course fee funding for **95%** of the course fee under the **Workfare Training Support (WTS)** scheme.
- Singaporeans aged 25 years old and above are eligible for **SkillsFuture Credit** which can be used to offset course fees.

For more information about the course fee funding, please visit www.ssg.gov.sg