

**CERTIFICATION PROGRAM****Certified Lean Change Agent*****for Manufacturing***

LEAN negates Machiavelli's principle of "The end justifies the means".

Lean Manufacturing known to be as "Toyota Production System" changed the way Toyota do things thus successfully allowing them to penetrate markets even outside Japan. Toyota's market capitalization has for years exceeded top ranks and even become one of the top leaders in the automobile industry. How did Toyota do it? WASTE REDUCTION.

This 5-Training Day Certification Program is designed to cater to the strategic role of executing process improvement through Lean. The thinking concentrates on identification of operations, service and information wastes that lurk within the business processes and from there, execute techniques to remove, reduce or reengineer the current process state. Lean's philosophy is to achieve the most efficient process, balanced and in smooth flow, without compromising the voice of the customer.

Upon completion of this program, an individual shall obtain a tailor-fit understanding as to how Toyota's mechanism can be applied to other verticals of manufacturing such as: Semiconductors, Food, Consumables, Electronics, Clothing, Publishing, Fuel, Pharmaceutical and more. Examples of applicable techniques are: Identification of Time traps, Calculation of Inventory Turns, Systems for Warehousing and Maintenance, Optimizing calculation for Ordering & Service Agreements with Procurement, 5S Management, & Calibration of Machines and equipments.

**Overview of Course Curriculum**

- \* LEAN for MANUFACTURING
- \* Value Stream Mapping Techniques
- \* 5S & Visual Process Controls
- \* Customer Pull & Replenishment Systems  
(including Kanban calculations for minimum safe batch sizes)
- \* Poka-Yoke Mistake-Proofing and Standardization Techniques
- \* Rapid Set-Up Methodology & Work Balancing  
(including Work Cell Optimization)
- \* Total Productive Maintenance
- \* Over-All Equipment Effectiveness (OEE)
- \* Kaizen Blitz

The knowledge areas in the curriculum are aligned with industry known body of knowledge in Lean and Engineering principles.