

# Introduction to Lean Manufacturing

If this doesn't describe your organization...  
**Better, Faster, Lower Cost!**  
**... it's describing your competition**

The Total Quality Management approach of the 80s and 90s has grown and matured. Today it's called "Lean Manufacturing". Staying up-to-date is no longer a question of preference but is quickly becoming a question of a supportable competitive position.

We're not talking diet here, but it takes "lean" people to manifest a "lean" organization. And this introduction is a great way to get started yourself.

Here's what you can expect to be contributing to: quality improves, productivity goes up, inventories are reduced, and lead-times are cut. When costs are reduced and market share grows, profits improve.

- 50% – 99% Quality Improvement
- 30% – 80% Productivity Improvement
- 50% – 80% Inventory Reduction
- 50% – 85% Lead-times Reduction

## Who Should Attend

Anyone with a management role in the production process.

## What You Will Learn

This one-day session gives you a solid overview of the manufacturing process refining system that is setting the competitive benchmark today.

## Seminar Content

- Lean simulation and debrief
- Overview of Business Case and Lean Manufacturing Principles and its components (building blocks)
  - Lean Thinking
  - The concept of value-added
  - Value Stream Mapping
  - Kaizen
  - Quality at the Source
  - Muda: the 8 Wastes

- Workplace organization and the visual workplace (5S and Visual Workplace including the "6<sup>th</sup> S" – Safety) \*
- Standardized work
- Pull/Kanban
- Cellular Manufacturing (CM)/One Piece Flow
- Prevention and elimination of error: Poka-Yoke
- Theory of Constraints
- Total Productive Maintenance (TPM)

*\* A fundamental building block of lean. This workshop focuses on how to facilitate the implementation of the 5S process that removes clutter, makes apparent and organizes what is needed, avoids confusion, eliminates waste, enhances safety and the ability to implement Lean.*

- Demand Flow Technology (DFT) processes
- Make to order
- Take Time calculation
- Single-piece production (O-P-F)
- Just-in-Time materials/pull scheduling
- Level scheduling
- Highly flexible and responsive processes
- Highly flexible machines and equipment
- Quick changeover (SMED)
- Short cycle times
- Continuous flow work cells
- Co-located machines, equipment, tools and people (\*CM)
- High first-pass yields with major reductions in defects
  - Compressed space
  - Multi-skilled and empowered employees (Teams)

Prerequisite  
none

*continued...*

## Introduction to Lean Manufacturing...

### Your Facilitator

**Sal Polletta** is a graduate of McGill University with a Bachelor of Commerce (B. Com. McGill, 1979) in Finance and Organizational Behaviour and post-graduate degree (D.M. McGill, 1986) in Management and Organizational Behaviour.

He is bilingual, with over thirteen years of experience in management (1979-1991) and eleven years in the field of consulting, facilitating and teaching adults.

He has worked with several educational institutions, training partners, multi-national organizations and government departments in North America, Europe and the Middle East.

Sal is a qualified lead auditor of the ISO 900, QS-9000 and ISO 14000 International Standards and is trained as a Six Sigma Black Belt.

His client list includes General Electric, Goodyear, Black & Decker, Heinz Foods, Canadian Forces Base Trenton (8 Wing), NORTEL, HRDC, CCRA, CCMD, RCMP and the Canadian Police College among many others.



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