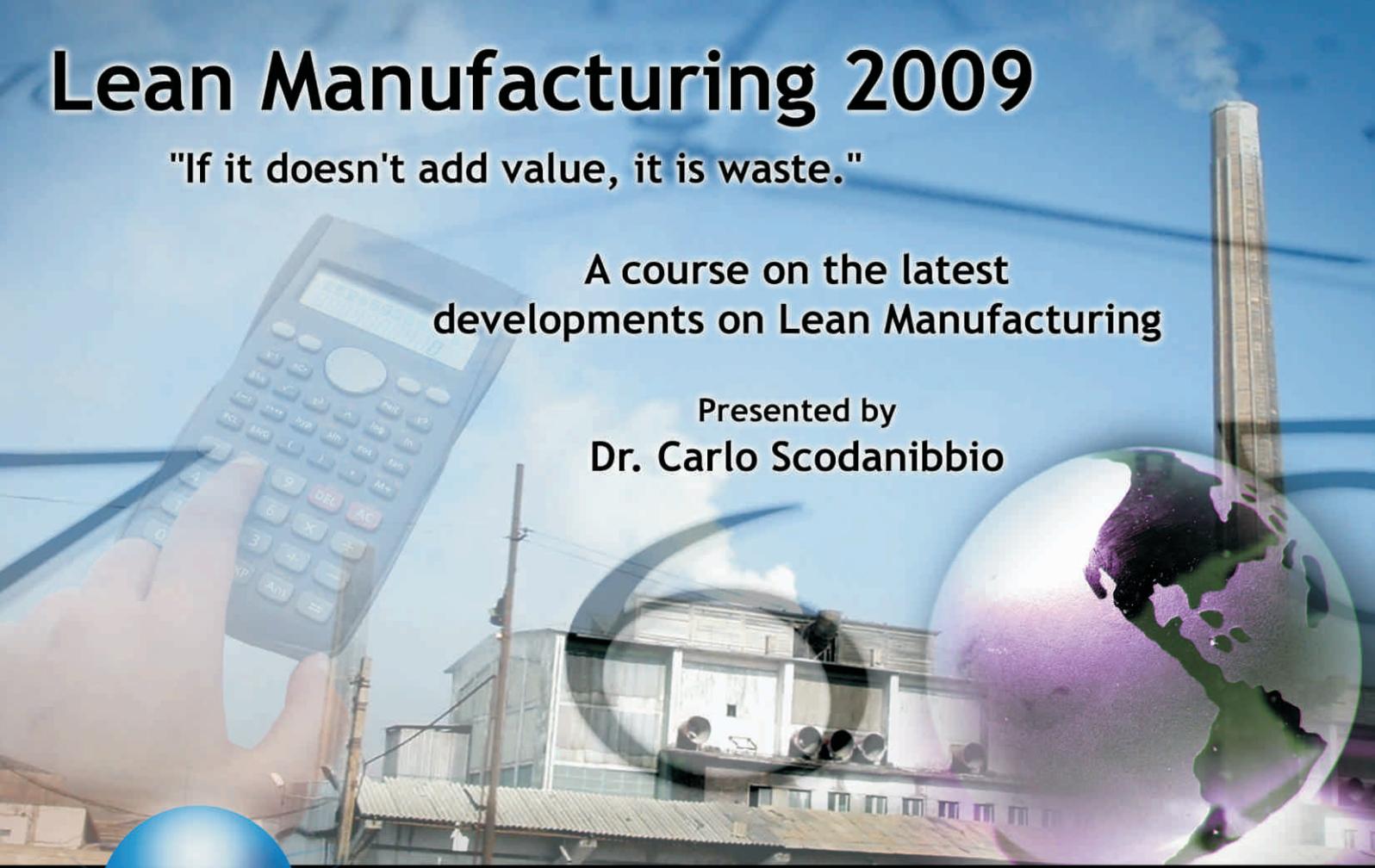


# Lean Manufacturing 2009

"If it doesn't add value, it is waste."

A course on the latest  
developments on Lean Manufacturing

Presented by  
Dr. Carlo Scodanibbio



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Registration Number: 2005/155851/23

## Lean Manufacturing 2009

An intensive three-day course on how to increase drastically quality, productivity and "responsiveness" in the Manufacturing Industry.

The Lean Philosophy is changing the way organisations operate. Many have rushed off, taken a course and pronounced themselves LEAN. Many have failed.

Yet very few have tested the depths of overall performance enhancement and added competitiveness possible with a complete change of paradigms in the "lean" direction. Research by Gallup has uncovered that less than 30% of employees are truly engaged in their jobs. Lean Thinkers have long shown that an additional 25-40% of the work done by most organisations is waste or non-value added. ▶ *continued on Page 2*

### Course Trainer

Dr. Carlo Scodanibbio

### Workshop Dates

15th, 16th & 17th April 2009

### Venue

Southern Sun Grayston Hotel, Sandton

### Who should attend this event?

- Plant / Factory Managers,
- Manufacturing Directors / Managers
- Operations Directors / Managers
- Production Directors / Managers - Production Planners and Supervisors
- Quality Assurance Directors / Managers
- Chief Engineers
- Heads of Maintenance

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[www.premierconferencing.co.za](http://www.premierconferencing.co.za)

Telephone: +27 11 626 9000  
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# OBJECTIVES

- ▶ This means that 40% of every payroll dollar is easily lost. With the advent of true global competition, can you afford to lose 40% of your time as a company?

Our investigations have come to the conclusion that the manufacturing sector is polluted by an astonishing 35% of completely wasted labour. Can that be afforded any longer? This course will be a shocking course for many of you. Because it demystifies all traditional principles of the first industrial revolution on which the majority of manufacturing enterprises, still today, are built or around which they operate. By presenting in rather great detail the philosophy of the second industrial revolution and the main tools and disciplines readily available to all manufacturing enterprises to perform in an "excellent" status, this course is a door-opener to lean practices for whoever is: ready to listen to the message prepared to abandon obsolete principles, formulas and approaches willing to get to "lean" status.

This course will prove that competitiveness today can no longer be achieved by merely cutting costs or revamping technology: because cutting costs has a floor, while performance improvement through maximisation of value-added and waste elimination has no ceiling and because technology alone does not generate the levels of output value enterprises and organisations need to tackle the challenges of the new millennium.

## Course Objectives

This course is designed to give participants a practical, "hands-on" presentation of the Lean Manufacturing discipline, addressed to dramatic improvements in productivity, quality and reactivity to clients' needs and expectations (World Class Performance status). Specific objectives of this course are:

- To highlight the vital importance of a global attention to "value" in the manufacturing industry.
- To make participants aware of the Value Adding Management and Systematic Elimination of Waste principles, and furnish hints and practical guidelines for their practical implementation in the manufacturing industry.
- To make participants acquainted with Lean Manufacturing, Flow Production and Cell Manufacturing principles, by studying practical cases of successful implementation
- To give participants practical criteria to identify, in their own manufacturing concern, those processes in which Lean Manufacturing techniques could be implemented smoothly
- To show the relationship between Lean Manufacturing and allied disciplines such as Total Quality Management, Total Productive Maintenance, Achieving Quick Change-Over and Total Employee Involvement

## Learn more about your facilitator

**Dr. Carlo Scodanibbio**, born in Macerata, Italy in 1944, holds a doctor degree in Electrical Engineering from Politecnico di Milano in 1970. He has over 37 years of experience in Plant Engineering, Project Engineering and Project Management, as well as Industrial Engineering and Operations Management. He has been an Independent Industrial Consultant and Human Resources Trainer since 1979 and has worked in a wide spectrum of companies and industries in many countries including South Africa, Italy, Cape Verde, Romania, Malta, Cyprus, Lebanon, Mauritius, Kenya, Saudi Arabia, Malaysia and India. His area of expertise lies in World-Class Performance for Small and Medium Enterprises in the Project, Manufacturing, and Services sectors.

He has co-operated, inter-alia, with several Italian Chambers of Commerce and Industry, the Cyprus Chamber of Commerce and Industry, the Cyprus Productivity Centre, the Malta Federation of Industry, the Mauritius Employers' Federation, the Romanian Paper Industry Association, the United Nations Industrial Development Organisation, the Federation of Kenya Employers and the University of Cape Town. His courses and seminars, conducted in English, Italian and French, have been attended by over 12.000 Entrepreneurs, Managers, Supervisors and Employees. They feature a very high level of interaction, and are rich in simulations, exercising and real case studies. The approach is invariably "hands-on" and addressed for immediate, practical application.

## What did previous delegates have to say?

*"An excellent seminar, well presented, realistic, to the point. Excellent for making managers see the companies in a different manner."*

[Vassos Loizides: Assistant General Manager - Chr. Avraamides & Co. Ltd - Nicosia, Cyprus]

*"An excellent course well organised excellent presentation material new hints/ideas that can be put into practice"*

[Charles Muscat: Process Manager, Beer Packaging - Simonds Farsons Cisk - Malta]

*"Excellent course, I cannot wait to start to implement what I have learnt in practice!!"*

[Rikus Grobler: Operations Manager - Namibia Beverages - Windhoek, Namibia]

## DAY ONE

### World Class Manufacturing Operations

- Understanding the scenario

### Value Adding Management In The Manufacturing Industry

- Focusing on the productive processes to maximise the output value
- Identifying waste in Manufacturing Operations - Case studies: "spot the waste!"

### Systematic Elimination of Waste In The Manufacturing Industry

- What is waste: classification of waste
- The SOCO (5S) approach as a starting point for fighting waste:
  - Halting waste proliferation
  - Reducing waste
  - Eliminating waste

### Productive Systems

- The "Batch" and "Line" Types of Operations
- The "push" and "pull" productive methods
- The Kanban approach to pull production
- Why the Kanban method is no longer to be considered "lean" and in which cases it should be adopted
- Effects of the "push" method: the "stock" issue case studies

### Productive Process Time and Cost Analysis

- Identifying value-adding and non-value-adding activities
- Understanding "takt-time", "throughput-time", WIP (work-in-progress) and their inter-relationships

### The Target

- Flow Production, or production with no waste

### The Relationship Between:

- JIT-Just in Time, LM-Lean Manufacturing and Flow Production

### The Small-lot Production Systems: The Smaller The Lot, The Less The Waste!

- Case study: one-piece flow vs. batch production

### Flow Production In Three Different Situations:

- Labour-intensive
- Machine-intensive
- Combination
- Case studies

### The Stock Issue

- Why does stock pile up and (sometimes) flood the factory?

## DAY TWO

### What Are The Necessary Requirements To Implement Flow Production

- Flow Production golden rules
- How to reduce drastically all lead times through flow production: produce today what your customers ordered yesterday

### Is Continuous Flow Production Suited To You?

- Case studies
- The product-quantity analysis
- Process mapping
- Process-raising studies

### Cell Production and Group Technology

- Design of manufacturing cells: principles and techniques.
- When to consider One-Piece-Flow production and Cell Manufacturing
- How to improve productivity by a minimum of 35%, by eliminating the bulk of the waste

### Plant, Equipment, Machinery, Layouts and Flow Production

- The relationship between Lean Manufacturing and TPM, Total Productive Maintenance

- Lean Disciplines: TPM basic principles for the Manufacturing Industry
- Not all machines are suited for Flow Production: how to avoid the "super star galactica" cul-de-sac

### Flow Production and Quick Change-Over: The Missing Link

- Lean Disciplines: the Quick Change-Over approach
- How to improve set-up and change-over time by 50% to 80%
- How to achieve "instantaneous change-over" situations
- Live simulation

### TQM - Total Quality Management and Lean Manufacturing

- Flow production to maximise quality and productivity - the link quality/productivity the techniques
- The 100% testing approach in Manufacturing: case study
- Lean Disciplines: the Poka-Yoke approach for zero-defects interactive case study
- Lean Disciplines: the 6 Sigma Methodology for drastic reduction of process' variability - overview

## DAY THREE

### How to Deploy LM Techniques In The Manufacturing Industry

- Starting from the top or from the bottom?
- Can Flow Production be extended factory-wide? The mixed "push/pull" compromise.
- Where and how to position the "coupling" between the "push/batch" and the "pull/flow" systems
- Basic Lean and Continuous Flow principles for the Continuous Process manufacturing industry and the highly mechanised/automated factory

### Value Stream Management: a global approach to Lean

- The Value Stream Mapping technique: a practical deployment of all Lean Disciplines in an integrated fashion
- The VSM "storyboard": a common, practical tool understandable both to Top Management and to Shop-floor people
- The "Milestone Charter" and the Kaizen approach to the implementation of Lean Improvement projects

### New Operations Management style for Lean Manufacturing:

- Simple is beautiful!
- Small is beautiful!

### New Relationship With Suppliers for Lean Manufacturing

- Understanding the "Value-Chain" principle in manufacturing and the strategic role of suppliers and sub-contractors
- Suppliers evaluation, classification, rating and grading: overview
- Lean approaches to Supply Chain management
- Is "co-makership" suited to you?

### People for Lean Manufacturing: Multi-skill, Multi-function, Flexible, Responsible, Empowered

- New challenges for Human Resources Management, and new frontiers in people performance
- Management's and employees' approach to Lean Manufacturing
- TEI -Total Employee Involvement and Lean Manufacturing: the perfect symbiosis

All delegates will receive a certificate of attendance as well as comprehensive course documentation.

Due to the interactive nature of this workshop limited seats are available please book now to avoid disappointment.

Registration for this course is at 08:00am with the course starting at 08:30am. Lunch is at 12:00 with the course concluding at 04:30pm. Please note that all timings are approximate due to the interactive nature of the course. To reserve your seat for this prestigious and highly effective course, please complete the registration form on the next page and fax to our Marketing Department.