

# Lean Inventory and Warehouse Management 2010

A two-day workshop to assist logistics (warehouse) managers and plant managers to develop a coordinated approach to optimise inventory level and warehouse management in a manufacturing enterprise. This workshop will give you tools to take away that work and are tried-and-true ways to improve your management process and impact the bottom line.

Shanghai, China

19th & 20th August 2010



## Your International Facilitator:

**Will Li, Lean manufacturing Consultant of Mercedes-Benz Technology**

- ✓ **13 years working experience in manufacturing industry.**
- ✓ **Solid working experience on shop floor, position including QC, production, logistics.**
- ✓ **Production Manager, Logistics Manager at Fortune 500.**
- ✓ **Solid lean manufacturing consulting experience and the clients cover automobile, electronic and machinery.**

His talks and workshops have been very well received and the sharing of his practical experience and advice has been valuable to many corporations for many years. Has many years of public speaking and training experience.

## His Methodological Competence include:

- ✓ **Supply chain management**
- ✓ **Lean logistics**
- ✓ **Lean warehouse design**
- ✓ **Lean Inventory optimize**
- ✓ **Value Stream analysis and design**
- ✓ **Productivity Improvement (Kaizen)**
- ✓ **Implementation of Kanban and pull system**
- ✓ **Shopfloor Management**
- ✓ **Production system design**

## What the Seminar Will Help You Achieve:

- **Lean thinking:** A model that can be followed to get started with LEAN manufacturing and how to implement without stopping operations
- **Characteristics of lean plant and warehouse:** Help you to understand the goal of implementing lean in a plant
- **Three options of internal logistics:** Introduce you 3 models to show why we need lean logistics
- **Production forecast and production plan:** Introduce you the forecast and plan techniques
- **Plan for every part:** It is the basis to design internal logistics and reduce inventory level
- **ABC/XYZ analysis:** Let you know how to focus on key part
- **Ordering model:** It is core concept to manage the inventory level
- **Calculation of safety stock:** How to build a buffer to handle the fluctuation
- **Pull system:** It is key to reduce the WIP, show you the kanban concept and methodology
- **Layout design of warehouse:** Show you the basic (principles) of layout design
- **Management process of warehouse:** How the lean help to run the warehouse
- **Safety and Ergonomics of warehouse:** Let you know the important impact of safety and ergonomics
- **Lean packaging:** It is important to reduce waste of transportation and warehouse management

## Pre-Course Questionnaire

In order to tailor this course precisely to your needs, the course leaders would value information on your knowledge, experience and requirements.

# Thursday 19th August 2010

**0830 Registration and morning coffee**

**0900 Workshop Introduction**

**0930 Session One - Basics of lean:**

- Core of lean thinking
- Core tools of lean
- Key characteristics of lean plant and warehouse
  - ✓ Material system (internal and external system)
  - ✓ Quality system(zero defect system)
  - ✓ Visual management system (visual plant)
  - ✓ Management system(policy and practice)

**1045 Morning Refreshment and Networking Break**

**1115 Session Two - Logistics in plant:**

- Basic principle of logistic in plant
- Target of logistics in plant
- Three options of logistics in plant

**1200 Networking Luncheon**

**1330 Session Three - How to optimize inventory level: production forecast**

- Why we need to optimize the inventory?
- Why we need to hold proper inventory?
- Forecast
  - ✓ Method of forecast
  - ✓ How to optimize inventory by forecast
- MPS process
  - ✓ Preparation
    - Focus on bottleneck
    - Calculation of workload
    - Analysis of capacity
    - Bill of material
  - ✓ Analyze
  - ✓ Balance of capacity and need
  - ✓ MPS meeting
  - ✓ Customer need plan
  - ✓ Communication with suppliers
  - ✓ How to optimize the inventory by MPS
- MRP

**1500 Afternoon Refreshment and Networking Break**

**1530 Session Four - How to optimize inventory level: material management**

- Plan for every part
- ABC analysis
  - ✓ Pareto rule
  - ✓ Case study
- XYZ analysis
  - ✓ XYZ rule
  - ✓ Case study
- How to apply ABC/XYZ
  - ✓ ABC/XYZ rule
  - ✓ How to optimize inventory by ABC/XYZ

**1700 Closing Remark and End of Day One**

## About Martin Linking

**Martin Linking Business Consulting** plans to produce more than 80 trainings and conferences and works with senior executives from the majority of the world's top 1000 companies to improve their business strategy and match their learning and training needs in one year. And we continue to grow.

We also invite the leading business practitioners, industry decision makers and innovators to share insights, best business practice, and new technology at our forums. **We are dedicated to give attendees cutting edge information they can use immediately.** We constantly research and listen to all industry sectors to ensure that the business intelligence we provide is timely and cutting-edge.

## Workshop Schedule

### Day One & Two

0830 Registration and Coffee  
 0900 Workshop Commences  
 1030 Morning Refreshments  
 1100 Workshop Re-commences  
 1200 Luncheon  
 1330 Workshop Commences  
 1500 Afternoon Refreshments  
 1530 Workshop Re-commences  
 1730 Workshop Concludes

**0830 Registration and morning coffee**

**0900 Workshop Introduction**

**0930 Session Five - How to optimize inventory level: ordering mode**

- Economic Order Mode
- Quantitative Order Mode
  - ✓ Rule
  - ✓ Case study
  - ✓ How to optimize by it
- Safety stock
  - ✓ Rule
  - ✓ Calculation formula
  - ✓ Case study

**1045 Morning Refreshment and Networking Break**

**1115 Session Six - How to optimize inventory level: pull system**

- Pull rule
- Different style of pull system
- What is kanban
- Categories of kanban
  - ✓ Production kanban
  - ✓ Material kanban
  - ✓ Special kanban
- Calculation of kanban quantity

**1200 Networking Luncheon**

**1330 Session Seven - Lean warehouse: layout of warehouse**

- Current situation of warehouse
- Layout of warehouse
  - ✓ Layout rule
  - ✓ Case study
- Function area design
- Rack design

**Session Eight - Lean warehouse: warehouse management**

- Management process
- Stocking strategy
- Visual management

**1500 Afternoon Refreshment and Networking Break**

**1530 Session Nine - Lean warehouse: safety and ergonomics**

- Case study for safety
- Case study for ergonomics

**Session Ten - lean warehouse: Lean packaging**

- Definition of lean packaging
- Case study for lean packaging

**1700 Closing Remark and End of Day Two**

## Consultant Profile: Will Li

**Position:** Senior Lean Production Consultant

**Education:** Mechanical Engineering and MBA

**Key Projects:**

- ✓ Project leader experience
- ✓ VSM and Kaizen to optimize lead time and WIP
- ✓ U-Cell and Kanban pull system design
- ✓ SMED to reduce setup time
- ✓ Inventory management optimization
- ✓ Six sigma
- ✓ Lean warehouse

**Methods and Skills**

- ✓ Kanban system
- ✓ VSM
- ✓ U-cell
- ✓ Kaizen
- ✓ Inventory analysis and optimization
- ✓ SMED
- ✓ Shop floor management
- ✓ Lean philosophy

## In-House Training Solutions

If you have a number of delegates with similar training needs, then you may wish to consider having an In-House Training solution delivered locally on-site. Course can be tailored to specific requirements.

Please contact **Whitney Shen** on **+86 28 6552 1255** or email [whitney.shen@martinlinking.net](mailto:whitney.shen@martinlinking.net) to discuss further possibilities.

# 精益库存和仓库管理 2010

这是一个为期两天的培训以协助物流（仓库）管理人员和工厂经理制定协调办法以优化生产企业的库存水平及仓库管理。这次培训将提供给您许多能拿走即用的和久经考验的理念和工具以改善您的管理流程并产生重要影响。

中国上海

2010年8月19-20日

您的国际培训师:

Will Li, 精益生产顾问, 梅赛德斯奔驰技术咨询公司



- ✓ 13年制造行业的工作经验。
- ✓ 坚实的生产现场工作经验, 从事过的职位包括质量管理, 生产, 物流。
- ✓ 500强企业从事生产经理, 物流经理的经历。
- ✓ 坚实的精益制造咨询经验, 客户行业包括汽车, 电子和机械。

他的讲座及培训都非常受欢迎, 他的实际经验交流和建议多年来对许多公司都有很高的价值。具有多年的公开演讲和培训经验。

精通以下理论和方法:

- ✓ 供应链管理
- ✓ 精益物流
- ✓ 精益仓库的设计
- ✓ 精益库存优化
- ✓ 价值流的分析和设计
- ✓ 生产力改进 (精益)
- ✓ 实现看板和拉动系统
- ✓ 现场管理
- ✓ 生产系统设计

这次培训将在以下方面给您帮助:

- **精益思想:** 一个可以被遵照执行的开始精益制造的模式, 和如何在不停止运营的情况下实现它
- **精益工厂和仓库的特点:** 帮助您了解工厂实施精益的目标
- **内部物流的三种选择:** 介绍三种模式并说明我们为什么需要精益物流
- **生产预测和生产计划:** 介绍预测和计划的技术
- **为每一个零件做计划:** 这是设计内部物流和降低库存水平的基础
- **ABC/XYZ 分析:** 让你知道如何把重点放在关键零件
- **订购模式:** 它是管理库存水平的核心概念
- **安全库存的计算:** 如何建立一个缓冲区来处理波动
- **拉动系统:** 这是减少在制品的关键。展示给您看板的概念和方法
- **仓库布局设计:** 布局设计的基本原则
- **仓库的管理过程:** 精益是如何帮助运营仓库的
- **仓库安全和人体工学:** 让你知道的安全和人体工学的重要影响
- **精益包装:** 运输和仓储管理中减少废弃物是很重要的

## 课程预问卷

为了确保这一课程正是适应了您的需求, 培训师将通过它来评估您的知识, 经验和需要。

2010年8月19日 星期四

0830 签到及早茶

0900 培训介绍

0930 第一部分 - 精益概述:

- 精益思想的核心内容
- 精益生产的核心工具
- 精益工厂和仓库的典型特征
  - ✓ 物料系统 (高效的内部和外部物流)
  - ✓ 质量系统 (零缺陷系统)
  - ✓ 目视化管理系统 (目视化工厂)
  - ✓ 管理系统 (政策和实践)

1045 上午茶歇和人际交流

1115 第二部分 - 工厂内精益物流:

- 工厂内精益物流的基本原则
- 工厂内精益物流的目标
- 工厂内物流的3种方案

1200 午餐及人际交流

1330 第三部分 - 如何削减库存之一: 生产预测和计划

- 为什么要削减库存?
- 为什么要保持适量库存?
- 预测
  - ✓ 预测方法
  - ✓ 如何利用预测降低库存
- 主生产计划流程
  - ✓ 准备
    - 关注瓶颈
    - 工作量的转换
    - 产能分析
    - 物料清单
  - ✓ 分析
  - ✓ 需求和产能的平衡
  - ✓ MPS 会议
  - ✓ 需求计划
  - ✓ 供应商沟通
  - ✓ 如何利用主生产计划降低库存
- 物料需求计划

1500 下午休息和人际交流

1530 第四部分 - 如何削减库存之二: 物料管理

- 为每个零件做计划
- ABC 分析
  - ✓ 帕累托原理
  - ✓ 练习
- XYZ 分析
  - ✓ XYZ分类原理
  - ✓ 练习
- 如何应用 ABC/XYZ 分析
  - ✓ 物料ABC/XYZ分析原理
  - ✓ 如何利用物料ABC/XYZ分析降低库存

1700 结束语, 第一天结束

### 关于马汀令可

马汀令可商务咨询计划每年组织超过 80 场的培训和会议, 与全球 1000 强公司的高层经理一起提高他们的商务战略, 满足他们的学习和培训需求。并且我们在不断成长。

我们邀请领先企业的管理者, 决策者和创新者在我们的活动中分享他们的思想观念, 最佳商业实践和新技术。我们致力于为我们的客户提供即刻可用的前沿信息。我们不断地研究和聆听所有行业的声音来保证我们提供商业信息是及时和前沿的。

### 培训时间表

#### 第一天和第二天

- 0830 签到和早茶
- 0900 培训开始
- 1045 上午休息
- 1115 培训继续
- 1200 午餐
- 1300 培训开始
- 1500 下午休息
- 1530 培训继续
- 1730 培训总结

2010年8月20日 星期五

0830 签到和早茶

0900 第一天培训内容回顾

0930 第五部分 - 如何削减库存之三：订货模式

- 经济订货模型
- 定量订货模型
  - ✓ 原理
  - ✓ 举例练习
  - ✓ 如何降低库存
- 安全库存
  - ✓ 安全库存原理
  - ✓ 如何计算安全库存
  - ✓ 举例练习

1045 上午茶歇和人际交流

1115 第六部分-如何削减库存之四：拉动系统

- 拉动原理
- 拉动系统的不同形式
- 什么是“看板”
- 看板的种类
  - ✓ 生产看板
  - ✓ 取货看板
  - ✓ 特殊看板
- 看板的计算

1200 午餐及人际交流

1330 第七部分 - 精益仓库之一：物料仓库布局

- 仓库管理的现状
- 仓库布局
  - ✓ 仓库布局原理
  - ✓ 仓库布局优化案例讨论
- 仓库功能区设计
- 仓库货架设计

第八部分- 精益仓库之二：物料仓库管理

- 仓库管理流程
- 物料存储策略
- 仓库目视化管理

1500 午间休息及人际交流

1530 第九部分 - 精益仓库之三：仓库安全和人体工学

- 仓库安全案例
- 仓库人体工学案例

第十部分 - 精益仓库之四：精益包装

- 精益包装定义
- 精益包装举例

1700 结束语，会议结束

### 培训师介绍: Will Li

**职位:** 高级精益生产顾问

**教育:** 机械工程和 MBA

**主要项目背景:**

- ✓ 项目领导经验
- ✓ 运用价值流程图 (VSM) 和Kaizen来减少交货期和在制品
- ✓ U-Cell和看板拉动系统设计
- ✓ 运用SMED来减少准备时间
- ✓ 库存管理和优化
- ✓ 6西格玛
- ✓ 精益仓库

**方法和技巧**

- ✓ 看板系统
- ✓ 价值流程图 (VSM)
- ✓ U-cell
- ✓ Kaizen
- ✓ 库存分析和优化
- ✓ SMED
- ✓ 现场管理
- ✓ 精益理论

### 内训方案

如果公司有许多人有类似的培训需要，那么你不妨考虑内部培训的解决方案。

培训将在贵公司现场举行。并且培训可以根据您具体的要求来进行

请联系Whitney Shen来讨论合作的可能:

电话: **+86 28 65521255**

电邮: **whitney.shen@martinlinking.net**

# Lean Inventory and Warehouse Management 2010

SH10032-Sales Contract-Please Complete in Capital Letters and Black Ink

## Sales Contract

Please complete this form immediately and fax back to

Whitney Shen

Fax No: +86 28 6552 1233

## Fee Per Delegate

Two Day Training Fee RMB 7995 per person

All the registered delegates are entitled for a set of documentation free of charge

DOCUMENTATION RMB 2500

If you are unable to attend the conference/training but wish to receive copies of the conference/training documentation, please complete the sales contract, tick this box and return the contract with payment details.

Full Payment is required within 5 working days

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Email: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Email: \_\_\_\_\_

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Email: \_\_\_\_\_

Organisation: \_\_\_\_\_

Address: \_\_\_\_\_

Town: \_\_\_\_\_ State: \_\_\_\_\_ Postcode: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

Nature of Business: \_\_\_\_\_

Company Size:  1-99  100-249  250-499

500-999  1000+

## Authorization

(Signatory must be authorized to sign on behalf of contracting organization.)

Name: \_\_\_\_\_

Position: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**This booking is invalid without a signature.**



## Register Now

Contact: Whitney Shen

Tel:+86 28 6552 1255

Fax:+86 28 6552 1233

Email: whitney.shen@martinlinking.net

## Business Opportunities

An exhibition space is available at the conference. Sponsorship opportunities covering lunch, evening receptions and advertising in documentation packs are also available. Please contact Ms. Whitney Shen at +86 28 6552 1255.

## Payment Method

**Our payment terms are 5 working days on receipt of invoice and full payments can be made by bank transfer.**

开户名: 成都马汀令可商务咨询有限公司

开户行: 中国工商银行成都市暑袜南街支行

账号: **4402928009022523952**

**CONFIRMATION DETAILS:** After receiving payment, a receipt will be issued. If you do not receive a letter outlining the conference details two weeks prior to the event, please contact the Conference Coordinator at Martin Linking.

## Terms & Conditions:

1. Fees are inclusive of program materials and refreshments.
2. Payment Terms - Following completion and return of the registration form, full payment is required within five (5) working days upon the issuance of invoice. Payment must be received prior to the conference/training date. A receipt will be issued on payment. Due to limited conference/training seats, we advise early registration to avoid disappointment. We reserve the right to refuse admission if payment is not received on time.
3. Client's Cancellation/substitution - Provided the total fee has been paid, client's cancellation must be received in writing by MAIL or FAX four (4) weeks prior to the event in order to obtain an 85% credit to attend for any future **Martin Linking** Events. Under such circumstances, **Martin Linking** will retain the other 15% service fee to cover expenses for prior cost that has already been incurred upon the acceptance of registration. All bookings carry a 50% cancellation liability immediately after a signed sales contract has been received by **Martin Linking**.
4. If, for any unexpected circumstances or reasons that **Martin Linking** decides to postpone this event, the client hereby indemnifies and holds **Martin Linking** harmless from any cost incurred in by the client. The event fee will not be refunded, but can be credited to future **Martin Linking**' s events. **Martin Linking** reserves the right to change the content without notice.
5. Copyright etc. - All Intellectual Property rights in all materials produced or distributed BY **Martin Linking** in connection with this event is expressly reserved and any unauthorized duplication, publication or distribution is strictly prohibited.
6. Important note: In the event that **Martin Linking** permanently cancels the event for any reason whatsoever, (Including, but not limited to any force majeure occurrence) and provided that the event is not postponed to a later date nor is merged with another event, the client shall receive a refund for the amount that the Client has paid to such permanently cancelled event.