



LM011: Advanced Logistics & Transportation Techniques

Training Description:

Recent competitive trends have been pushing companies to reconsider the impact and importance of increasing equipment availability, utilization and resource utilization, and increasing quality and responsiveness of supply services in achieving World Class Status to meet world competition.

Warehouse operations continue to play a critical role in assuring high levels of customer service and overall logistics performance. Efficient warehouse operation can minimize the effects of supply chain inefficiencies; can improve logistics accuracy and inventory management; and can allow for product accumulation, consolidation, and customization.

This course is designed to provide participants with an up-to-date overview of effective warehouse operation. It provides a useful approach to reducing operating costs, enhancing inventory control, increasing profits, improving customer satisfaction, and controlling assets through efficient warehouse operations. In addition, the course fully examines and evaluates the array of practices, methods, equipment applications, and current technology that contribute to the effective operation of warehouses.

The comprehensive course will show you how to initiate and sustain a process of inventory and warehouse performance improvement; a process in which spare parts availability is recognized as critical to the overall production strategy by which your plant provides the product to the customer at a quality he wants and a price they are willing to pay.

The course is devoted to helping you understand how to improve performance through more effective measurement systems. Here's a road map to take you from where you are to where you need to be! Here are some practical guidelines, tools, and techniques that will enable you to develop consistent, useful, and relevant measures of performance as they strive for 'world class's status.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Apply and gain an in-depth knowledge on effective warehouse operation
- ✓ Discuss and innovate warehouse operation
- ✓ Illustrate warehouse design, space optimization and lean warehousing
- ✓ Carryout inventory control and list spare parts
- ✓ Employ value-added process and inventory optimization
- ✓ Identify equipment spares and apply spares demand planning and storeroom procedures
- ✓ Implement material cataloguing, warehouse automation and bar coding
- ✓ Perform RFID automation from bar codes to smart labels
- ✓ Automate RFID tags and identify the active and passive tags, tag construction and frequencies, tag classes and tag simulation process, tag selection and placement
- ✓ Recognize computerized inventory management systems and engineering materials as well as apply warehouse best practices

Training Designed for:

This course is intended for storeroom managers, senior warehouse officers, senior warehouse supervisors, warehouse supervisors, storekeepers, inventory control staff, CMMS professionals, maintenance planners,

maintenance supervisors, IT professionals, operations managers, manufacturing, and export and import managers.

Training Requirement:

"Hand's on practical sessions, equipment and software will be applied during the course if required and as per the client's request." (This hands-on, highly-interactive training includes simulator, real-life case studies and exercises).

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

- ❖ PRE-TEST
- ❖ Introduction to Warehouse Operations
 - Warehouse Objectives
 - Warehouse Definitions & Operational Responsibilities
 - Maintenance, Sanitation and Security Activities
 - On-Schedule & Accurate Performance of Warehouse, Distribution and Transportation Activities
- ❖ Innovating Warehouse Operation
 - Receiving and Putaway Principles
 - Pallet Storage and Retrieval Systems
 - Case Picking Systems, Small Item Picking Systems
 - Order Picking Operations
 - Unitizing and Shipping
- ❖ Warehouse Design
 - Purpose of the Facility
 - The Design Volume Level, Determining Facility Size
 - Warehouse and Distribution Activities
 - Facility Layout Is a Complex Project
 - Facility Layout Objectives, Computer Simulation

DAY TWO:

- ❖ Warehouse Space Optimization
 - Space Requirements Planning: Determine the Overall Space Requirements for all Warehouse Processes
 - Material Flow Planning: Specify a U-Shape, straight thru, or Modular Overall Flow Design
- ❖ Lean Warehousing
 - Adjacency Planning: Locate Functions with High Adjacency Requirements Close to One Another
 - Process Location: Assign Process with High Storage Requirements to High-Bay Space, and Labor-Intensive Processes in low Bay Space
 - Expansion/ Contraction Planning: Document Expansion and
 - Contraction Strategies for Each Warehouse Process

- Lean Warehousing
- Six Sigma
- Lean Method & Implementation
- ❖ **Inventory Control**
 - Perpetual Inventory
 - Variations on the Perpetual
 - Inventory Method, Cycle Counts
 - Annual Inventory
- ❖ **Spare Parts Lists**
 - Plant Hierarchy
 - Preparation & Maintenance of Part Lists
 - Parts List Standard

DAY THREE:

- ❖ **Introduction to Value-Added process**
 - Controlling the Value in the Storeroom
- ❖ **Inventory Optimization**
 - Stock Level Establishment
 - Min-Max Stocks Lead Time Delivery
- ❖ **Equipment Spares Identification**
 - Follow-Up & Closure Equipment Types
 - Spares Identification, Stock Level, Criticality
- ❖ **Spares Demand Planning**
 - Equipment Reliability
 - Spares Demand Planning
 - Supply Chain Management
- ❖ **Storeroom Procedures**
 - Primary ID
 - Store Stock Catalogue, Part Descriptions
 - Adequate Information on Every Potential Item
 - Store Stock Numbering, Everything Identified All
- ❖ **Material Cataloguing**
 - Describing the Part
 - Other Uses of the Description
 - A Case for Descriptive, Item Numbers
 - Hierarchal Systems, Stock Index for ID
 - Inventory Classification, Location Codes
 - Stock Number of Bin Location
 - Bill of Materials (BOM), Consignment Inventory
 - Rebuilt Parts, Used Parts

DAY FOUR:

- ❖ **Warehouse Automation & Bar Coding**
 - Bar Code Readers
 - Bar Code Systems
 - Bar Code Printing, Moving to Bar Codes

- Bar Code Support Suppliers
- ❖ **From Bar Codes to Smart Labels (RFID)- Automation**
 - Label Certification
 - Encoding, Printing & Validating Smart Labels
 - Readers & Printers, Building Blocks of an RFID Reader
 - Logical Components of an RFID Reader
 - Building Blocks of RFID Printers, Types of Readers
 - Trends & Possibilities
- ❖ **RFID Tags- Automation**
 - Tag Types (Active and Passive Tags)
 - Data Carrying Options, Tag Construction Frequencies
 - Passive Tag Communication
 - Tag Classes, Tag Simulation Process, Selection & Placement

DAY FIVE:

- ❖ **Computerized Inventory Management Systems**
 - Building Blocks, Canned Report Generator
 - Ad-Hoc Report Generator, Data Mining Tools, Report Mining Tools
- ❖ **Engineering Materials Overview**
 - Iron & Steel, Alloy Steels
 - Cast Iron, Copper & its Alloys
 - Aluminum & its Alloys, Other Non-ferrous Metals & Alloys
 - Plastic Materials & Rubbers
 - Ceramics, Glasses, Composite Materials
 - Fibre-reinforced Composite Materials
- ❖ **Warehouse Best Practices**
 - Using Tools for Export
 - Understanding Export Customers' Requirements
 - Methods of Transport, Open Items
 - Change Issues, Implementation Issues
 - Implementation Model
 - Next Steps -What Do We Focus on Next?
- ❖ Course Conclusion
- ❖ POST-TEST and Evaluation

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.



Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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