

## PROCUREMENT & SUPPLY CHAIN

# Inventory, Warehouse & Materials Management Excellence 2030

A two-day programme in inventory, warehouse & materials management, with eight modules and workplace application.



**DURATION** 2 days

**DELIVERY** Public or in-house

## Why this programme

Inventory and warehouse operations are crucial touchpoints where working capital meets physical execution. This intensive course covers modern inventory optimization algorithms, automated warehousing technology, smart material handling systems, and real-time tracking architectures. Participants will gain practical skills to reduce carrying costs, improve order fulfillment speed, and maintain flawless inventory accuracy.

## What participants will learn

- 01** Working Capital Optimization: Lower inventory holding costs while improving service levels and stock availability.
- 02** Smart Warehouse Automation: Evaluate and deploy robotics, Automated Storage and Retrieval Systems (ASRS), and WMS platforms.
- 03** Process Efficiency: Streamline receiving, picking, packing, and dispatch operations using lean practices.
- 04** Flawless Accuracy: Implement continuous cycle counting and IoT-enabled tracking to achieve high inventory visibility.

## Who should attend

Procurement and sourcing professionals, supply chain managers, supplier relationship teams, operations leaders and inventory or warehouse managers.

## How you will learn

Trainer-led explanation and discussion connect the module topics to workplace application.

# Detailed programme

## Day 1: Advanced Inventory Analytics & Control Strategy

### 01 Strategic Inventory Management in the 2030 Era

- The strategic balance between inventory optimization and customer satisfaction.
- Understanding inventory holding, order, and stockout costs.
- Key metrics: Inventory Turnover Ratio, Days Sales of Inventory (DSI), and OTIF.

### 02 Advanced Segmentation & Classification Techniques

- Multi-criteria inventory classification (ABC-XYZ Analysis).
- Managing critical spare parts, MRO items, and high-velocity goods.
- Tailoring inventory policies based on lead-time and demand variability.

### 03 Dynamic Safety Stock & Reorder Point Optimization

- Calculating dynamic safety stocks based on variable lead times and demand.
- Economic Order Quantity (EOQ) adaptations for volatile markets.
- Buffer management in Vendor-Managed Inventory (VMI) frameworks.

### 04 Working Capital Optimization & Multi-Echelon Control

- Multi-Echelon Inventory Optimization (MEIO) across complex networks.
- Reducing slow-moving, obsolete, and non-moving (SLOB) inventory.
- Synchronizing inventory replenishment with production and supply schedules.

# Detailed programme

## Day 2: Next-Gen Warehouse Operations & Material Handling

### 05 Next-Generation Warehouse Design & Layout

- Principles of lean layout design for optimal spatial utilization.
- Dynamic slotting strategies based on velocity and seasonality.
- Designing warehouse infrastructure for rapid omnichannel fulfillment.

### 06 Warehouse Automation, Robotics & WMS Integration

- Evaluating AGVs, AMRs, ASRS, and automated sorting technologies.
- Role of modern Warehouse Management Systems (WMS) and IoT integration.
- Voice, vision, and light-guided picking technologies.

### 07 Material Handling, Receiving & Dispatch Optimization

- Optimizing inbound dock scheduling, receiving, and cross-docking operations.
- Advanced order picking strategies (Batch, Zone, Wave picking).
- Outbound staging, packing automation, and loading efficiency.

### 08 Inventory Accuracy, Auditing & Operational Excellence

- Establishing world-class cycle counting programs vs. physical wall-to-wall counts.
- Root-cause analysis for inventory discrepancies and shrinkage.
- Developing a physical operations transformation plan.

## How you will learn

Trainer-led explanation and discussion connect the module topics to workplace application.

### TRAINER PROFILE

#### Dr Jude Selvaraj Joseph

A master trainer and consultant with more than 25 years of corporate experience across education, hospitality, logistics and supply chain. His work connects leadership, people development and operational improvement.

Trainer availability is confirmed for each programme.

Confirm HRD Corp (HRDF) eligibility and claim arrangements with ISDS before booking. Where applicable, claims are arranged through Orange Revolution.

## Plan your training with ISDS

Discuss fees, delivery options and a programme suited to your team.

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