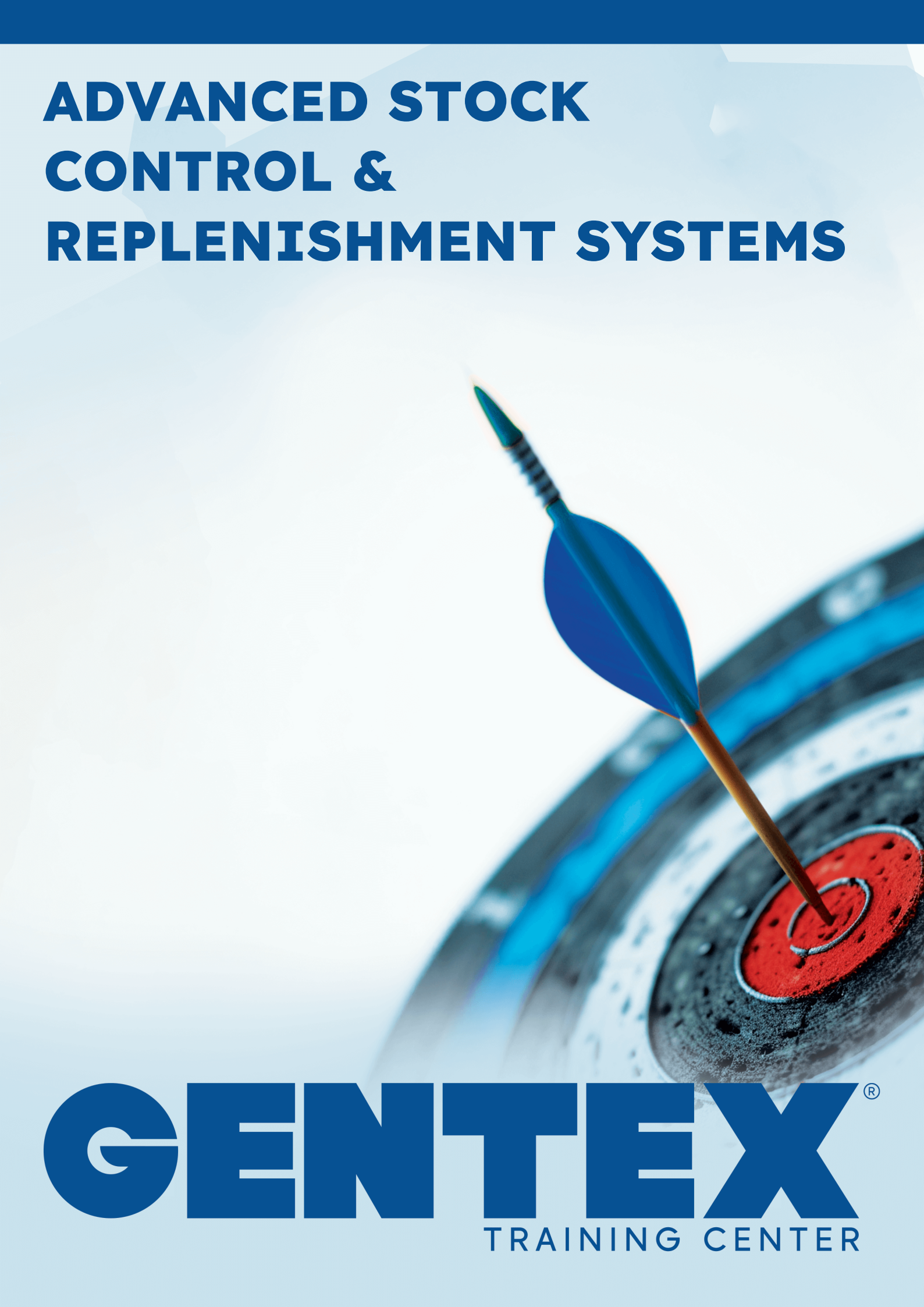
# ADVANCED STOCK CONTROL & REPLENISHMENT SYSTEMS



GENTEX®
TRAINING CENTER

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

# Introduction

Stock ties up cash, occupies space, and hides problems until they surface as shortages or write-offs. Getting replenishment right means knowing what to hold, how much to order, and when to trigger the order, with figures that reflect real demand rather than habit. This Advanced Stock Control & Replenishment Systems Training Course gives inventory, warehouse, and planning professionals a practical method to control stock across multiple locations and to design replenishment rules that hold up under demand swings. Participants learn how to set safety stock, classify items by value and movement, calculate reorder points, and read inventory KPIs with confidence. Furthermore, the course shows how to clean up master data so the system produces trustworthy signals.

# Advanced Stock Control & Replenishment Systems Course Objectives

- Apply ABC and XYZ classification to prioritise control effort by value and demand variability.
- Calculate economic order quantity (EOQ) and balance ordering cost against holding cost.
- Set safety stock using service level targets, demand variability, and lead time deviation.
- Determine reorder points, min-max levels, and periodic review intervals.
- Build demand forecasts using moving average, exponential smoothing, and seasonal indices.
- Design replenishment rules for multi-location networks, including central and branch stocking.
- Reduce obsolete and slow-moving stock through ageing analysis and phase-out planning.
- Improve inventory accuracy with cycle counting, ABC count frequency, and root cause correction.
- Measure performance using inventory turnover, days of inventory, fill rate, and stockout rate.

GENTEX® TRAINING CENTER

- Use ERP and WMS stock modules, barcode and RFID data, and MRP planning parameters correctly.

## Course Methodology

- Facilitated sessions built on worked examples with real stock and demand data.
- Spreadsheet drills on EOQ, safety stock, reorder point, and forecast accuracy.
- Case workshops on stockouts, excess inventory, and multi-branch replenishment failures.
- Cycle counting and stock reconciliation simulation.
- Group exercise on an inventory reduction plan with measurable targets.

## Who Should Take This Course

- Inventory controllers and stock analysts.
- Warehouse and stores supervisors.
- Demand and supply planners.
- Procurement officers managing replenishment orders.
- ERP and WMS super users and master data owners.
- Finance and audit staff reviewing inventory valuation.

## Advanced Stock Control & Replenishment Systems Course Outlines

## Day 1: Inventory Fundamentals and Classification

- Inventory types: raw material, work in progress, finished goods, and spares.
- Costs of holding stock: capital, storage, obsolescence, insurance, and shrinkage.
- Costs of not holding stock: stockouts, lost sales, and expedited freight.

- ABC classification by annual usage value and control levels per class.
- XYZ classification by demand variability and forecast difficulty.
- Combining ABC and XYZ into a nine-box control matrix.
- Setting review frequency, counting policy, and approval limits by class.

## Day 2: Demand Forecasting and Planning Parameters

- Demand patterns: stable, trend, seasonal, intermittent, and lumpy.
- Moving average and weighted moving average methods.
- Exponential smoothing and trend-adjusted smoothing.
- Seasonal indices and deseasonalised demand.
- Forecast accuracy measures: MAPE, bias, and tracking signal.
- Handling new items, promotions, and discontinued lines.
- Master data hygiene: lead times, lot sizes, units of measure, and supplier records.

## Day 3: Order Quantities, Safety Stock, and Reorder Points

- Economic order quantity and its assumptions and limits.
- Quantity discounts, minimum order quantities, and transport lot sizes.
- Safety stock formulas using service level factor, demand and lead time deviation.
- Reorder point calculation under variable demand and variable lead time.
- Min-max and periodic review systems compared.
- Two-bin and kanban replenishment in lean environments.
- Service level targets and the cost trade-off behind each target.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

## Day 4: Multi-Location Replenishment and Stock Accuracy

- Central warehouse and branch stocking policies.
- Distribution requirement planning and push versus pull replenishment.
- Transshipment rules and inter-branch transfer control.
- Cycle counting design: frequency, sample size, and tolerance thresholds.
- Root cause analysis of count variances and corrective actions.
- Handling returns, damaged goods, and quarantine stock.
- Slotting, pick face sizing, and location discipline for accuracy.

## Day 5: Performance Measurement and Continuous Improvement

- Inventory turnover, days of inventory, and cash tied up in stock.
- Fill rate, order fulfilment rate, and stockout frequency.
- Excess and obsolete reporting with ageing buckets.
- Slow mover and dead stock reduction plans.
- S&OP linkage: aligning stock policy with sales and supply plans.
- ERP and WMS reports, dashboards, and exception alerts.
- Building an annual inventory optimisation roadmap.

GENTEX Training Center LLC | Orlando - FL, USA
Info@gentextraining.com

## Conclusion

By successfully completing the Advanced Stock Control & Replenishment Systems Training Course, participants will have acquired a solid working knowledge of inventory classification, demand forecasting, order quantity and safety stock calculation, multi-location replenishment design, stock accuracy control, and inventory performance measurement. They will leave able to set replenishment parameters that match real demand, cut excess and obsolete stock, and raise fill rates without inflating holdings. Gentex Training Center delivers this programme with supply chain practitioners who tune these systems in live operations.

## FAQs for the Advanced Stock Control & Replenishment Systems course

## Q1 What is the "Advanced Stock Control & Replenishment Systems" course about?

It is a five-day programme on controlling inventory levels and designing the rules that trigger replenishment. It covers ABC and XYZ classification, demand forecasting, economic order quantity, safety stock and reorder point setting, multi-location replenishment, stock accuracy, and inventory KPIs.

## Q2 What are the key benefits of the "Advanced Stock Control & Replenishment Systems" course?

GENTEX® TRAINING CENTER

Participants release cash tied up in excess stock, cut stockouts on critical items, and reduce obsolete and slow-moving inventory. They also gain replenishment parameters that respond to real demand, higher fill rates, and cleaner master data that makes every system signal reliable.

## Q3 What skills will I gain from the "Advanced Stock Control & Replenishment Systems" course?

You will gain inventory classification and policy setting, demand forecasting and accuracy measurement, safety stock and reorder point calculation, and multi-location replenishment planning with cycle counting and inventory KPI control.

## Q4 What tools, methods, or standards are covered in the "Advanced Stock Control & Replenishment Systems" course?

The course works with ABC and XYZ classification matrices, economic order quantity models, safety stock formulas with service level factors, reorder point and min-max systems, moving average and exponential smoothing forecasts with seasonal indices, MAPE and tracking signal accuracy measures, kanban and two-bin replenishment, MRP planning parameters, cycle counting, and ERP and WMS inventory reports.

## Q5 How is the "Advanced Stock Control & Replenishment Systems" course applied in real-world practice?

Teams apply it when setting reorder points in the ERP, reviewing slow-moving stock each quarter, running cycle counts, and planning stock for seasonal peaks. It also guides branch transfer rules, supplier order quantities, and the inventory reduction targets reported in monthly S&OP meetings.