



PROCUREMENT AND SUPPLY CHAIN MANAGEMENT | PSCM-033

Inventory Optimisation with Analytics

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Course content

Why Attend

Inventory ties up capital while shortages harm service. Analytics allow organisations to set optimal inventory levels using demand data, variability and service targets.

This Aractech course covers inventory concepts, demand analysis and forecasting, ABC/XYZ segmentation, safety stock calculation, reorder policies, multi-echelon concepts, inventory KPIs and using spreadsheets and tools to optimise inventory. Participants optimise a sample inventory.

Course Methodology

- Spreadsheet labs
- Case studies
- Calculation exercises
- Group discussions
- Reviews

Course Objectives

- Understand inventory costs and trade-offs
- Analyse demand patterns and variability
- Segment inventory using ABC/XYZ
- Calculate safety stock and reorder points
- Set replenishment policies
- Measure and improve inventory performance

Target Audience

- Inventory and materials managers
- Supply chain planners



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Global Learning for Operational Leaders

Course content

- Demand planners
- Warehouse managers



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Course outline

Detailed course outline

Day-by-day outline for Inventory Optimisation with Analytics.

Day 1 - Inventory Fundamentals

- 09:00-09:45 | Purpose of inventory
- 09:45-10:30 | Costs
- 10:30-11:00 | Service levels
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Service levels (continued)
- 11:45-12:30 | Trade-offs
- 12:30-14:00 | Exercise: Inventory profile

Day 2 - Demand Analysis

- 09:00-09:45 | Demand patterns
- 09:45-10:30 | Forecasting
- 10:30-11:00 | Variability
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Variability (continued)
- 11:45-12:30 | Intermittent demand
- 12:30-14:00 | Lab: Demand analysis

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Day 3 - Segmentation and Safety Stock

- 09:00-09:45 | ABC/XYZ
- 09:45-10:30 | Safety stock formulas
- 10:30-11:00 | Service level targets
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Service level targets (continued)
- 11:45-12:30 | Lead time variability
- 12:30-14:00 | Lab: Safety stock calculation

Day 4 - Replenishment Policies

- 09:00-09:45 | Reorder point
- 09:45-10:30 | Periodic review
- 10:30-11:00 | EOQ
- 11:00-11:30 | Coffee break
- 11:30-11:45 | EOQ (continued)
- 11:45-12:30 | Multi-echelon concepts
- 12:30-14:00 | Case study: Inventory reduction

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Day 5 - Performance

- 09:00-09:54 | Inventory KPIs
- 09:54-10:48 | Dashboards
- 10:48-11:00 | Obsolescence
- 11:00-11:30 | Coffee break
- 11:30-12:12 | Obsolescence (continued)
- 12:12-13:06 | Continuous improvement
- 13:06-14:00 | Capstone: Inventory optimisation plan

Seminar dates

Available seminar dates

Live dates and pricing for Inventory Optimisation with Analytics generated from the course details page.

Date	Location	Format	Fee
16 - 20 November 2026	Paris	Classroom	€3,825
7 - 11 December 2026	Frankfurt	Classroom	€1,875
11 - 15 January 2027	Amsterdam	Classroom	€2,830
8 - 12 February 2027	Geneva	Classroom	€4,315
8 - 12 March 2027	Istanbul	Classroom	€1,978
12 - 16 April 2027	Cape Town	Classroom	€1,625
10 - 14 May 2027	Barcelona	Classroom	€2,815
14 - 18 June 2027	Paris	Classroom	€3,825
12 - 16 July 2027	Frankfurt	Classroom	€1,875
9 - 13 August 2027	Amsterdam	Classroom	€2,830



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Date	Location	Format	Fee
13 - 17 September 2027	Geneva	Classroom	€4,315
11 - 15 October 2027	Istanbul	Classroom	€1,978
8 - 12 November 2027	Vienna	Classroom	€3,225
13 - 17 December 2027	Barcelona	Classroom	€2,815
16 - 20 November 2026	Online / Live	Online / Live	€1,815
7 - 11 December 2026	Online / Live	Online / Live	€1,815
11 - 15 January 2027	Online / Live	Online / Live	€1,815
8 - 12 February 2027	Online / Live	Online / Live	€1,815
8 - 12 March 2027	Online / Live	Online / Live	€1,815
12 - 16 April 2027	Online / Live	Online / Live	€1,815



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Date	Location	Format	Fee
10 - 14 May 2027	Online / Live	Online / Live	€1,815
14 - 18 June 2027	Online / Live	Online / Live	€1,815
12 - 16 July 2027	Online / Live	Online / Live	€1,815
9 - 13 August 2027	Online / Live	Online / Live	€1,815
13 - 17 September 2027	Online / Live	Online / Live	€1,815
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