

Inventory Management

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1:</i> Importance of Inventory Management	<ul style="list-style-type: none"> - Explain why inventory management is important. - Define the goal of inventory management. - Define which costs can be influenced by inventory management. - Explain why inventory management has to be done right. 		30-45
	<i>Module 2:</i> The Need for Inventory	<ul style="list-style-type: none"> - Explain the reasons for keeping inventory. - Explain what a customer order decoupling point is. - Define what the three main questions of inventory management are. 		30-45
	<i>Module 3:</i> Classifications of Inventory	<ul style="list-style-type: none"> - Explain the classification of inventory in functions, such as safety stock, cycle stock and buffer stock. - Explain the classification of inventory in types, such as physical inventory and economical inventory. 		30-45
	<i>Module 4:</i> Safety Stock and Service Level	<ul style="list-style-type: none"> - Explain what the safety stock and order point are. - Explain why it is important to have the right amount of safety stock. - Explain what the main factors are that influence the safety stock. - Provide an easy formula to calculate the safety stock. 		30-45
	<i>Module 5:</i> Order Quantity	<ul style="list-style-type: none"> - Explain why the order quantity is important. - Show which costs are effected by the order quantity. - Explain how to calculate the Economic Order Quantity. 		30-45
	<i>Module 6:</i> Classifying your Portfolio	<ul style="list-style-type: none"> - Explain why it is important to classify your portfolio. - Show how you can classify your portfolio and what you can do with this classification. - Explain how the lifecycle phase of an item is important as extra actions might be needed. 		30-45
	<i>Module 7:</i> KPIs	<ul style="list-style-type: none"> - Provide the definition of the main Inventory Management KPIs. - Show how to calculate and interpret these KPIs. 		
	<i>Module 8:</i> Inventory & Demand Management	<ul style="list-style-type: none"> - Define the relation between demand management and inventory management. - Show how the forecast error effects inventory levels. - Explain what service level differentiation is and show how it can help to bring your inventory down. 	IM module 4	30-45
	<i>Module 9:</i> Inventory & Supplier Management	<ul style="list-style-type: none"> - Explain the effect of lead times on the inventory level. - Explain the effect of lead time variability on the inventory level. - Explain the effect of the minimum order quantity on the inventory level. 	IM module 4	30-45
	<i>Module 10:</i> Inventory in Distribution Environments	<ul style="list-style-type: none"> - Show how the distribution footprint influences inventory management. - Explain what the bullwhip effect is. 	IM module 1-5	30-45
	<i>Module 11:</i> Inventory Management in MRP	<ul style="list-style-type: none"> - Show how MRP deals with Inventory Management. - Explain what the advantages and disadvantages of MRP are regarding Inventory Management. 	IM module 1-5	30-45

Demand Planning

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1:</i> Why Do you Need Demand Planning?	<ul style="list-style-type: none"> - Provide an understanding why Demand Planning is needed. - Show the difference between tactical and operational goals. - Explain the different aggregation levels. - Explain the three rules of forecasting. 		30-45
	<i>Module 2:</i> The Process of Demand Planning	<ul style="list-style-type: none"> - Explain which steps should be taken in a good demand planning process. - Explain which functions in the organization are involved with demand planning. - Provide an example of a demand planning process. 		30-45
	<i>Module 3:</i> Making and Measuring Forecasts	<ul style="list-style-type: none"> - Explain the different methods of forecasting. - Explain the difference between qualitative and quantitative methods. - Provide an insight in some of the qualitative methods. - Explain the difference between time series and causal methods. - Explain how to measure the forecast quality. 		30-45
	<i>Module 4:</i> Forecasting and MRP	<ul style="list-style-type: none"> - Explain the effect of forecast changes on MRP. - Explain the different methods to consume the forecast. 	DP module 1-3	30-45
	<i>Module 5:</i> Statistics behind Forecasting	<ul style="list-style-type: none"> - Explain the theory of some statistical forecasting techniques. - Explain the Theory of Moving Average. - Explain the Theory of Weighted Moving Average. - Explain the Theory of Single Exponential Smoothing. - Explain how to apply the formula's. 	DP module 1-3	30-45
	<i>Module 6:</i> Metrics of Forecasting	<ul style="list-style-type: none"> - Provide metrics to measure the forecast accuracy. - Self-practice applying the metrics. - explain about the differences between accuracy and bias. - Create awareness of pitfalls when using metrics. 	DP module 1-3	30-45

S&OP

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning Foundation	<i>Module 1:</i> Importance of S&OP	<ul style="list-style-type: none"> - Explain the importance of S&OP. - Define the essence of S&OP. - Describe the different S&OP maturity levels. - Define and explain the complexity of S&OP in a multinational environment. 		30-45
	<i>Module 2:</i> S&OP Mind Map	<ul style="list-style-type: none"> - Define the key aspects when bringing S&OP to the next level in terms of: <ul style="list-style-type: none"> - Company - Process - Information - Organization 		30-45
	<i>Module 3:</i> S&OP Level 3	<ul style="list-style-type: none"> - Explain the main differences between S&OP Level 1,2 and Level 3. - Explain the right S&OP Level 3 planning horizon. - Explain the level of detail that is needed for S&OP in Level 3. 	S&OP Module 1	30-45
	<i>Module 4:</i> Integrated Business Planning	<ul style="list-style-type: none"> - Explain the concept of managing the business with One Integrated Set of Numbers. - Explain the reasoning of having different plans for managing the business at strategic, tactical and operational level at this stage of S&OP's Journey. - Define the challenges to achieve an Integrated Set of Numbers. - Explain the differences between Targets, Plans, Forecasts and how to use these instruments. - Explain the key areas where S&OP Level 3 and S&OP Level 4 differ from each other. - Define and explain the purpose of the changes in role and behavior that are necessary in Finance and Operations to reach S&OP Level 4. 	S&OP Module 1-3	30-45
	<i>Module 5:</i> S&OP Enablers	<ul style="list-style-type: none"> - Define the enablers are required for an effective S&OP process. - Explain The importance of data preparation. - Define the importance of a structured S&OP framework. 	S&OP Module 1-3	30-45
	<i>Module 6:</i> S&OP Implementation	<ul style="list-style-type: none"> - What are the most important aspects to take into account when implementing S&OP. - Explain that change management ought to be an integral part of an S&OP implementation. - Explain why implementing S&OP is simple but not easy. 	S&OP Module 1-3	30-45

Supply Chain Strategy

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1:</i> Introduction to Supply Chain Strategy	<ul style="list-style-type: none"> - Define the importance of supply chain strategy. - Explain how the supply chain strategy can be formulated and implemented on different maturity levels. - What are the common obstacles and barriers for executing a supply chain strategy. 		30-45
	<i>Module 2:</i> The Competitive Landscape	<ul style="list-style-type: none"> - Derive that the supply chain strategy should depend on the competitive landscape. - Explain how the competitive landscape is formed by suppliers, technology and customers. - Explain how the suppliers, technology and customers all have their own characteristics on how to influence the supply chain strategy. 		30-45
	<i>Module 3:</i> The Unique Value Proposition and Segmentation	<ul style="list-style-type: none"> - Explain what the Unique Value Proposition entails. - Explain the importance of creating a segmentation between customers. - Explain the impact of this segmentation on the supply chain process. 		30-45
	<i>Module 4:</i> Supply Chain Processes	<ul style="list-style-type: none"> - Explain how the competitive landscape and the unique value proposition give direction to the supply chain process. - Explain how the supply chain process influence more than just costs. - Provide enablers for the successful implementation of a supply chain. 		30-45

Production Management

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning Foundation	<i>Module 1:</i> What is Production Management?	<ul style="list-style-type: none"> - Explain what is production management. - Show how production management affects the stakeholders in the company. - Show how manufacturing environments can differ in fundamental ways. 		30-45
	<i>Module 2:</i> Objectives of Production Management - Efficiency	<ul style="list-style-type: none"> - Explain that efficiency is not only about costs, but about output as well. - Explain how the bottleneck operations determine the output of the system. - Define the different types of costs in manufacturing environments. - Explain that there are trade-offs involved in improving efficiency. 		30-45
	<i>Module 3:</i> Objectives of Production Management - Lead times	<ul style="list-style-type: none"> - Explain the difference between the process times and the throughput time. - Show how inventory can shorten the customer lead times. - Explain what the value added ratio is and what it can tell you regarding decreasing throughput times 		30-45
	<i>Module 4:</i> Objectives of Production Management - WIP & Inventory	<ul style="list-style-type: none"> - Explain the relation between throughput time and work-in-process. - Explain the role of the customer order decoupling point for inventory in production. - Explain what the capacity stock is and how it can be used production. 		30-45
	<i>Module 5:</i> Batch Sizing	<ul style="list-style-type: none"> - Explain the first method to determine batch sizes: Economic Order Quantity. - Explain the second method to determine batch sizes: every product, every interval. - Explain in which situations each method can be applied. 	PM modules1-4	30-45
	<i>Module 6:</i> Improving Production Management	<ul style="list-style-type: none"> - Explain how the variability is the root cause of most production management issues. - Define what can be done about this variability. - Explain what can be done to absorb the remaining variability. 	PM modules1-4	30-45
	<i>Module 7:</i> MRP	<ul style="list-style-type: none"> - Define what MRP does. - Explain how MRP works. - Explain the advantages and pitfalls of MRP. 	PM modules1-4	30-45
	<i>Module 8:</i> Lean in 30 minutes	<ul style="list-style-type: none"> - Show that lean is about improving the value stream. - Show some tools that can be used to improve the value stream. - Explain why and how Lean is more than this set of tools, it is a philosophy. 	PM modules1-4	30-45
	<i>Module 9:</i> QRM	<ul style="list-style-type: none"> - Show how the lead time can be the most important KPI. - Explain what the main ideas behind Quick Response Manufacturing are. 	PM modules1-4	30-45
	<i>Module 10:</i> A quick tour through Theory of Constraints	<ul style="list-style-type: none"> - Explain the idea behind the Theory of Constraints. - Show the main tools of Theory of Constraints. 	PM modules1-4	30-45
	<i>Module 11:</i> Production Management Metrics	<ul style="list-style-type: none"> - Provide the definitions of some important metrics such as Overall Equipment Efficiency and Throughput. - Explain some of the pitfalls in implementing these metrics. 	PM modules1-4	30-45

Portfolio Management

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1:</i> Introduction to Portfolio Management	<ul style="list-style-type: none"> - Explain the importance of portfolio management. - Explain why having an active product costs money. - Explain the good and bad complexity. - Explain how business strategy drives portfolio management. 		30-45
	<i>Module 2:</i> Analyzing your Portfolio	<ul style="list-style-type: none"> - Show how ABC analysis can help to identify delisting candidates. - Show how the ABC analysis can be done using many different criteria. - Define the limitations and risks of using ABC analysis. - Explain the concept of "Assignable Contribution Rate" - Define the potential and benefits of looking at other levels of Bills of Materials. 		30-45
	<i>Module 3:</i> Integral Approach to Portfolio Analysis	<ul style="list-style-type: none"> - Explain the different roles of fixed and variable costs. - Show how the fixed cost reductions come in steps. - Show how the fixed costs need to be taken into account too. - Explain the use of scenarios and modelling. - Define the risks associated with portfolio pruning decisions. 		30-45
	<i>Module 4:</i> Pruning the Portfolio	<ul style="list-style-type: none"> - Show the different ways to simplify your portfolio. - Explain how to define the different stakeholders and the importance of Change Management. - Show ways of how to maintain a healthy portfolio. - Explain the use of KPIs to measure the health of your portfolio. 		30-45

Supply Chain Network Design

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1.1:</i> SC Network Design Fundamentals – Part One	<ul style="list-style-type: none"> - Explain the importance of SC network design. - Explain the trade-off cost vs service. - Explain the trade-off Make-to-Order vs Make-to-Stock. 		30-45
	<i>Module 1.2:</i> SC Network Design Fundamentals – Part Two	<ul style="list-style-type: none"> - Explain the trade-off central vs decentral structure. - Explain the trade-off single tier vs multi-tier SC network design. 	SC Network Design Module 1	30-45

Warehousing & Logistics

Format	Module/Topic	Learning Objectives	Prerequisites	Duration (mins)
eLearning <i>Foundation</i>	<i>Module 1:</i> Importance of logistics	<ul style="list-style-type: none"> - Explain the goal and importance of logistics. - Define the scope of logistics. - Explain what are logistics cost drivers and what is the share of logistic costs in total costs. - Explain how the service offering to the market impacts logistics. 		30-45
	<i>Module 2:</i> Warehouse Management	<ul style="list-style-type: none"> - Explain the goals of warehouse management. - Explain which factors influence warehouse costs. - Explain the basic warehouse processes. - Explain the highlights on warehouse equipment and IT. 		30-45
	<i>Module 3:</i> Transport Management	<ul style="list-style-type: none"> - Explain what are transport modes and when to use which one. - Define the objective of transport planning from the shipper and carrier perspective. - Explain what are transport configurations and cost drivers. - Explain the function of a Transport Management System in the system landscape. 		30-45
	<i>Module 4:</i> Logistics Outsourcing	<ul style="list-style-type: none"> - Explain the advantages of outsourcing logistics. - Explain which logistics functions can be outsourced and on which level. - Explain when to outsource logistics. - Define role and function of different outsourcing partners. 		30-45
	<i>Module 5:</i> Transport Responsibilities	<ul style="list-style-type: none"> - Explain what are incoterms. - Explain which actors are there in transport. - Explain what are typical documents used in transport. 		30-45