

Fold each printed sheet in half lengthwise. The left side of the document will list the term and the right side will list the definition. Tape or staple the open edges of your flashcards. Cut out your flashcards on the solid lines indicated and fold them on the dotted lines.

<p>Module 6</p> <p><i>Section C: Itemized Inventory Management</i></p>
<p>Term</p> <p>Safety lead time</p>
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An element of time added to normal lead time to protect against fluctuations in lead time so that an order can be completed before its real need date. When used, the MRP system, in offsetting for lead time, will plan both order release and order completion for earlier dates than it would otherwise. Syn: protection time, safety time.

<p>Module 6</p> <p><i>Section A: Inventory Planning</i></p>
<p>Term</p> <p>Inventory</p>
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1) Those stocks or items used to support production (raw materials and work-in-process items), supporting activities (maintenance, repair, and operating supplies), and customer service (finished goods and spare parts). Demand for inventory may be dependent or independent. Inventory functions are anticipation, hedge, cycle (lot size), fluctuation (safety, buffer, or reserve), transportation (pipeline), and service parts. 2) All the money currently tied up in the system. As used in theory of constraints, inventory refers to the equipment, fixtures, buildings, and so forth that the system owns—as well as inventory in the forms of raw materials, work-in-process, and finished goods.

<p>Module 6</p> <p><i>Section A: Inventory Planning</i></p>
<p>Term</p> <p>Inventory management</p>
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The branch of business management concerned with planning and controlling inventories.

<p>Module 6</p> <p><i>Section A: Inventory Planning</i></p>
<p>Term</p> <p>Decoupling</p>
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Creating independence between supply and use of material. Commonly denotes allocating inventory between operations so that fluctuations in the production rate of the supplying operation do not constrain the production or use rates of the next operation.

Module 6*Section A: Inventory Planning***Term**

Decoupling inventory

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An amount of inventory maintained between entities in a manufacturing or distribution network to create independence between processes or entities. The objective of [this] is to disconnect the rate of use from the rate of supply of the item. See: buffer.

Module 6*Section A: Inventory Planning***Term**

Inventory investment

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The dollars that are in all levels of inventory.

Module 6*Section A: Inventory Planning***Term**

Raw material

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Purchased items or extracted materials that are converted via the manufacturing process into components and products.

Module 6*Section A: Inventory Planning***Term**

Work in process (WIP)

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A good or goods in various stages of completion throughout the plant, including all material from raw material that has been released for initial processing up to completely processed material awaiting final inspection and acceptance as finished goods inventory. Many accounting systems also include the value of semifinished stock and components in this category. Syn: in-process inventory.

Module 6*Section A: Inventory Planning***Term**

Semifinished goods

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Products that have been stored in an uncompleted state and are awaiting final operations that will adapt them to different uses or customer specifications.

Module 6*Section A: Inventory Planning***Term**

Finished goods inventory

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Those items on which all manufacturing operations, including final test, have been completed. These products are available for shipment to the customer as either end items or repair parts. Syn: finished products inventory. See: goods.

Module 6*Section A: Inventory Planning***Term**

Distribution inventory

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Inventory, usually spare parts and finished goods, located in the distribution system (e.g., in warehouses or in transit between warehouses and the consumer).

Module 6*Section A: Inventory Planning***Term**

Maintenance, repair, and operating (MRO) supplies

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Items used in support of general operations and maintenance such as maintenance supplies, spare parts, and consumables used in the manufacturing process and supporting operations.

Module 6*Section A: Inventory Planning***Term**

Service parts

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Those modules, components, and elements that are planned to be used without modification to replace an original part. Syn: repair parts, spare parts.

Module 6*Section A: Inventory Planning***Term**

Safety stock

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1) In general, a quantity of stock planned to be in inventory to protect against fluctuations in demand or supply. 2) In the context of master production scheduling, the additional inventory and capacity planned as protection against forecast errors and short-term changes in the backlog. Overplanning can be used to create [this]. Syn: buffer stock, reserve stock. See: hedge, inventory buffer.

Module 6*Section A: Inventory Planning***Term**

Fluctuation inventory

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Inventory that is carried as a cushion to protect against forecast error. Syn: fluctuation stock. See: inventory buffer.

Module 6*Section A: Inventory Planning***Term**

Inventory buffer

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Inventory used to protect the throughput of an operation or the schedule against the negative effects caused by delays in delivery, quality problems, delivery of an incorrect quantity, and so on. Syn: inventory cushion. See: fluctuation inventory, safety stock.

Module 6
Section A: Inventory Planning

Term
Buffer

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1) A quantity of materials awaiting further processing. It can refer to raw materials, semifinished stores or hold points, or a work backlog that is purposely maintained behind a work center. 2) In the theory of constraints, [these] can be time or material and support throughput and/or due date performance. [These] can be maintained at the constraint, convergent points (with a constraint part), divergent points, and shipping points.

Module 6
Section A: Inventory Planning

Term
Anticipation inventories

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Additional inventory above basic pipeline stock to cover projected trends of increasing sales, planned sales promotion programs, seasonal fluctuations, plant shutdowns, and vacations.

Module 6
Section A: Inventory Planning

Term
Seasonal inventory

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Inventory built up to smooth production in anticipation of a peak seasonal demand. Syn: seasonal stock.

Module 6
Section A: Inventory Planning

Term
Lot-size inventory

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Inventory that results whenever quantity price discounts, shipping costs, setup costs, or similar considerations make it more economical to purchase or produce in larger lots than are needed for immediate purposes.

Module 6*Section A: Inventory Planning***Term**

Cycle stock

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One of the two main conceptual components of any item inventory, [this] is the most active component. [It] depletes gradually as customer orders are received and is replenished cyclically when supplier orders are received. The other conceptual component of the item inventory is the safety stock, which is a cushion of protection against uncertainty in the demand or in the replenishment lead time. Syn: cycle inventory.

Module 6*Section A: Inventory Planning***Term**

Transportation inventory

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Inventory that is in transit between locations. See: pipeline stock, transit inventory.

Module 6*Section A: Inventory Planning***Term**

Transit inventory

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Inventory [moving] between manufacturing and stocking locations. See: transportation inventory.

Module 6*Section A: Inventory Planning***Term**

Pipeline stock

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Inventory in the transportation network and the distribution system, including the flow through intermediate stocking points. The flow time through the pipeline has a major effect on the amount of inventory required in the pipeline. Time factors involve order transmission, order processing, scheduling, shipping, transportation, receiving, stocking, review time, and so forth. Syn: pipeline inventory. See: distribution system, transportation inventory.

Module 6*Section A: Inventory Planning***Term**

In-transit inventory

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Material moving between two or more locations, usually separated geographically; for example, finished goods being shipped from a plant to a distribution center.

Module 6*Section A: Inventory Planning***Term**

Hedge inventory

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A form of inventory buildup to buffer against some event that may not happen. [Planning] involves speculation related to potential labor strikes, price increases, unsettled governments, and events that could severely impair a company's strategic initiatives. Risk and consequences are unusually high, and top management approval is often required.

Module 6*Section A: Inventory Planning***Term**

Excess inventory

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Any inventory in the system that exceeds the minimum amount necessary to achieve the desired throughput rate at the constraint or that exceeds the minimum amount necessary to achieve the desired due date performance. Total inventory = productive inventory + protective inventory + excess inventory.

Module 6*Section A: Inventory Planning***Term**

Inactive inventory

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Stock designated as in excess of consumption within a defined period; stocks of items that have not been used for a defined period.

Module 6*Section A: Inventory Planning***Term**

Distressed goods

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Products that are damaged or close to their expiration date and cannot be sold at full price.

Module 6*Section A: Inventory Planning***Term**

Obsolete inventory

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Inventory items that have met the obsolescence criteria established by the organization. For example, inventory that has been superseded by a new model or otherwise made obsolescent. [It] will never be used or sold at full value. Disposing of the inventory may reduce a company's profit.

Module 6*Section A: Inventory Planning***Term**

Shelf life

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The amount of time an item may be held in inventory before it becomes unusable.

Module 6*Section A: Inventory Planning***Term**

Scrap

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Material outside of specifications and possessing characteristics that make rework impractical.

Module 6*Section A: Inventory Planning***Term**

Rework

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Reprocessing to salvage a defective item or part.

Module 6*Section A: Inventory Planning***Term**

Inventory policy

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A statement of a company's goals and approach to the management of inventories.

Module 6*Section A: Inventory Planning***Term**

Aggregate inventory management

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Establishing the overall level (dollar value) of inventory desired and implementing controls to achieve this goal.

Module 6*Section A: Inventory Planning***Term**

Inventory control

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The activities and techniques of maintaining the desired levels of items, whether raw materials, work in process, or finished products. Syn: material control.

<p>Module 6 <i>Section A: Inventory Planning</i></p>
<p>Term Stock keeping unit (SKU)</p>
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1) An inventory item. For example, a shirt in six colors and five sizes represents 30 [of these]. 2) In a distribution system, an item at a particular geographic location. For example, one product stocked at the plant and at six different distribution centers would represent seven [of these].

<p>Module 6 <i>Section A: Inventory Planning</i></p>
<p>Term Wall-to-wall inventory</p>
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An inventory management technique in which material enters a plant and is processed through the plant into finished goods without ever having entered a formal stock area. Syn: four-wall inventory.

<p>Module 6 <i>Section A: Inventory Planning</i></p>
<p>Term ABC classification</p>
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The classification of a group of items in decreasing order of annual dollar volume (price multiplied by projected volume) or other criteria. This array is then split into three classes [...]. The [first] group usually represents 10 percent to 20 percent by number of items and 50 percent to 70 percent by projected dollar volume. The next grouping [...] usually represents about 20 percent of the items and about 20 percent of the dollar volume. The [third] class contains 60 percent to 70 percent of the items and represents about 10 percent to 30 percent of the dollar volume. The ABC principle states that effort and money can be saved through applying looser controls to the low-dollar-volume class items than to the high-dollar-volume class items. The ABC principle is applicable to inventories, purchasing, and sales. Syn: ABC analysis, distribution by value. See: 80-20, Pareto analysis, Pareto's law.

<p>Module 6 <i>Section B: Inventory and Product Costs, Value, and Metrics</i></p>
<p>Term Carrying cost</p>
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The cost of holding inventory, usually defined as a percentage of the dollar value of inventory per unit of time (generally one year). [This] depends mainly on the cost of capital invested as well as costs of maintaining the inventory such as taxes and insurance, obsolescence, spoilage, and space occupied. Such costs vary from 10 percent to 35 percent annually, depending on type of industry. [It] is ultimately a policy variable reflecting the opportunity cost of alternative uses for funds invested in inventory. Syn: holding costs.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Ordering cost

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The costs that increase as the number of orders placed increases. Used in calculating order quantities. Includes costs related to the clerical work of preparing, releasing, monitoring, and receiving orders; the physical handling of goods; inspections; and setup costs, as applicable. See: acquisition cost, inventory costs.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Joint replenishment

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Coordinating the lot sizing and order release decision for related items and treating them as a family of items. The objective is to achieve lower costs because of ordering, setup, shipping, and quantity discount economies. This term applies equally to joint ordering (family contracts) and to composite part (group technology) fabrication scheduling. Syn: joint replenishment system.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Stockout costs

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The costs associated with a stockout. Those costs may include lost sales, backorder costs, expediting, and additional manufacturing and purchasing costs.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Risk pooling

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A method often associated with the management of inventory risk. Manufacturers and retailers that experience high variability in demand for their products can pool together common inventory components associated with a broad family of products to buffer the overall burden of having to deploy inventory for each discrete product.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Managerial accounting

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A branch of accounting that uses techniques such as break-even analysis, cost-volume-profit analysis, make-buy analysis, and others to provide information used in day-to-day decision making.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Cost accounting

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The branch of accounting that is concerned with recording and reporting business operating costs. It includes the reporting of costs by departments, activities, and products.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Balance sheet

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A financial statement showing the resources owned, the debts owed, and the owner's share of a company at a given point in time. See: funds flow statement, income statement.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Liabilities

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An accounting/financial term (balance sheet classification of accounts) representing debts or obligations owed by a company to creditors. [These] may have a short-term time horizon, such as accounts payable, or a longer-term obligation, such as mortgage payable or bonds payable. See: assets, balance sheet, debt, owner's equity.

Module 6*Section B: Inventory and Product
Costs, Value, and Metrics***Term**

Owner's equity

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An accounting/financial term (balance sheet classification of accounts) representing the residual claim by the company's owners or shareholders, or both, to the company's assets less its liabilities. See: assets, balance sheet, liabilities.

Module 6*Section B: Inventory and Product
Costs, Value, and Metrics***Term**

Income statement

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A financial statement showing the net income for a business over a given period of time. See: balance sheet, funds flow statement.

Module 6*Section B: Inventory and Product
Costs, Value, and Metrics***Term**

Cost of goods sold (COGS)

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An accounting classification useful for determining the amount of direct materials, direct labor, and allocated overhead associated with the products sold during a given period of time. See: cost of sales.

Module 6*Section B: Inventory and Product
Costs, Value, and Metrics***Term**

Direct labor

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Labor that is specifically applied to the good being manufactured or used in the performance of the service. Syn: touch labor.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Direct material

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Material that becomes a part of the final product in measurable quantities.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Overhead

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The costs incurred in the operation of a business that cannot be directly related to the individual goods or services produced. These costs, such as light, heat, supervision, and maintenance, are grouped in several pools (e.g., [department, factory, general]) and distributed to units of goods or services by some standard allocation method such as direct labor hours, direct labor dollars, or direct materials dollars. Syn: burden. See: expense.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Fixed overhead

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Traditionally, all manufacturing costs—other than direct labor and direct materials—that continue even if products are not produced. Although [this] is necessary to produce the product, it cannot be directly traced to the final product.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Gross margin

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The difference between total revenue and the cost of goods sold. Syn: gross profit margin.

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General and administrative expenses (G&A)

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The category of expenses on an income statement that includes the costs of general managers, computer systems, research and development, etc.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Profit margin

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1) The difference between the sales and cost of goods sold for an organization, sometimes expressed as a percentage of sales. 2) [In traditional accounting for a product, this] is the product selling price minus the direct material, direct labor, and allocated overhead for the product, sometimes expressed as a percentage of selling price.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Cash flow

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The net flow of dollars into or out of the proposed project. The algebraic sum, in any time period, of all cash receipts, expenses, and investments. Also called cash proceeds or cash generated.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Unit cost

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Total labor, material, and overhead cost for one unit of production (e.g., one part, one gallon, one pound).

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Value added

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1) In accounting, the addition of direct labor, direct material, and allocated overhead assigned at an operation. It is the cost roll-up as a part goes through a manufacturing process to finished inventory. 2) In current manufacturing terms, the actual increase of utility from the viewpoint of the customer as a part is transformed from raw material to finished inventory; the contribution made by an operation or a plant to the final usefulness and value of a product, as seen by the customer. The objective is to eliminate all non-value-added activities in producing and providing a good or service.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Velocity

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1) The rate of change of an item with respect to time. See: inventory turnover, lead time. 2) In supply chain management, a term used to indicate the relative speed of all transactions, collectively, within a supply chain community. [The maximum of this] is most desirable because it indicates higher asset turnover for stockholders and faster order-to-delivery response for customers.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Days of supply

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1) Inventory-on-hand metric converted from units to how long the units will last. For example, if there are 2,000 units on hand and the company is using 200 per day, then there are 10 [of these]. 2) A financial measure of the value of all inventory in the supply chain divided by the average daily cost of goods sold rate.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Inventory accounting

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The branch of accounting dealing with valuing inventory. Inventory may be recorded or valued using either a perpetual or a periodic system. A perpetual inventory record is updated frequently or in real time, while a periodic inventory record is counted or measured at fixed time intervals (e.g., every two weeks or monthly). Both recording systems use the LIFO, FIFO, or average costs inventory valuation method.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Generally accepted accounting principles (GAAP)

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Accounting practices that conform to conventions, rules, and procedures that are generally accepted by the accounting profession.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

First in, first out (FIFO)

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A method of inventory valuation for accounting purposes. The accounting assumption is that the [oldest inventory is the first to be used], but there is no necessary relationship with the actual physical movement of specific items. See: first-come-first-served rule, average cost system.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Last in, first out (LIFO)

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A method of inventory valuation for accounting purposes. The accounting assumption is that the most recently received [...] is the first to be used or sold [...] for costing purposes, but there is not necessarily any relationship with the actual physical movement of specific items. See: average cost systems.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Specific identification

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This method keeps track of the units of the beginning inventory and the units purchased[...]. This may be done through a coding method or serial number identification.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Standard cost accounting system

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A cost accounting system that uses cost units determined before production for estimating the cost of an order or product. For management control purposes, the standards are compared to actual costs, and variances are computed.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Standard costs

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The target costs of an operation, process, or product including direct material, direct labor, and overhead charges.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Variance

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1) The difference between the expected (budgeted or planned) value and the actual. 2) In statistics, a measurement of dispersion of data. See: estimate of error.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Actual cost system

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A cost system that collects costs historically as they are applied to production and allocates indirect costs to products based on the specific costs and achieved volume of the products.

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Job costing

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A cost accounting system in which costs are assigned to specific jobs. This system can be used with either actual or standard costs in the manufacturing of distinguishable units or lots of products. Syn: job order costing.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Transfer pricing

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The pricing of goods or services transferred from one segment of a business to another. See: interplant transfer.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Direct costs

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1) In traditional cost accounting, variable costs that can be directly attributed to a particular job or operation. Direct material and direct labor are traditionally considered [to be this]. 2) In activity-based cost (ABC) accounting, a cost that can specifically be traced and is economically feasible to track to a particular cost object (e.g., the units produced, a production line, a department, a manufacturing plant). In contrast, if the cost must be allocated across various cost objects, it is an indirect cost. Based on the cost object under consideration, the classification of direct and indirect can change. ABC accounting assumes that more costs traditionally viewed as fixed costs are variable and can be traced to cost objects.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Indirect costs

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Costs that are not directly incurred by a particular job or operation. [These include certain utility costs, such as plant heating.] [It] is typically distributed to the product through the overhead rates.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Product cost

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Cost allocated by some method to the products being produced. Initially recorded in asset (inventory) accounts, [this becomes] an expense (cost of sales) when the product is sold.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Absorption costing

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An approach to inventory valuation in which variable costs and a portion of fixed costs are assigned to each unit of production. The fixed costs are usually allocated to units of output on the basis of direct labor hours, machine hours, or material costs. Syn: allocation costing. See: activity-based costing.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Variable costing

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An inventory valuation method in which only variable production costs are applied to the product; fixed factory overhead is not assigned to the product. Traditionally, variable production costs are direct labor, direct material, and variable overhead costs. [This] can be helpful for internal management analysis but is not widely accepted for external financial reporting. For inventory order quantity purposes, however, the unit costs must include both the variable and allocated fixed costs to be compatible with the other terms in the order quantity formula. For make-or-buy decisions, [this] should be used rather than full absorption costing. Syn: direct costing.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Process costing

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A cost accounting system in which the costs are collected by time period and averaged over all the units produced during the period. This system can be used with either actual or standard costs in the manufacture of a large number of identical units.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Operation costing

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A method of costing used in batch manufacturing environments when the products produced have both common and distinguishing characteristics; for example, suits. The products are identified and costed by batches or by production runs, based on the variations.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Activity-based cost accounting

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A cost accounting system that accumulates costs based on activities performed and then uses cost drivers to allocate these costs to products or other bases such as customers, markets, or projects. It attempts to allocate overhead costs on a more realistic basis than by using direct labor or machine hours. Syn: activity-based costing, [...]. See: absorption costing.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Cost object driver

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In activity-based cost accounting, a numerical measure of the demand placed on one cost object by other cost objects.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Activity-based management (ABM)

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The use of activity-based costing information about cost pools and drivers, activity analysis, and business processes to identify business strategies; improve product design, manufacturing, and distribution; and remove waste from operations. See: activity-based cost accounting.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Cost control

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Applying procedures that monitor the progress of operations against authorized budgets and taking action to achieve minimal costs.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Cost variance

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In cost accounting, the difference between what has been budgeted for an activity and what it actually costs.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Waste

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1) Any activity that does not add value to the good or service in the eyes of the consumer. 2) A by-product of a process or task with unique characteristics requiring special management control. [The] production [of this] can usually be planned and somewhat controlled. Scrap is typically not planned and may result from the same production run as [this term]. See: hazardous waste.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Non-value-added

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An activity that does not add value to a product; for example, moving the product from one work center to another inside a facility. One aspect of continuous improvement is the elimination or reduction of [these] activities.

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Muda (waste)

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In lean manufacturing, costs are reduced by reducing [this] within a system. There are seven [categories]: (1) overproduction—excess or too early; (2) waiting—queuing delays; (3) transportation—unnecessary movements; (4) processing—poor process design; (5) motion—activities that do not add value; (6) inventory—stock that is sitting and is accumulating cost without necessarily providing value; (7) defective units—scrap or rework.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Muri

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A Japanese word meaning strain or overburden.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Mura

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A Japanese word meaning unevenness or variability.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Nonconformity

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Failure to fulfill a specified requirement. See: blemish, defect, imperfection.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Shingo's seven wastes

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Shigeo Shingo, a pioneer in the Japanese just-in-time philosophy, identified seven barriers to improving manufacturing. They are the waste of overproduction, waste of waiting, waste of transportation, waste of stocks, waste of motion, waste of making defects, and waste of the processing itself.

Module 6*Section B: Inventory and Product Costs, Value, and Metrics***Term**

Shojinka

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Continually balancing the number of workers in a work center to meet demand with a minimum number of workers to improve flow. It requires a line design—for example, U-shaped—that supports varying the number of workers.

Module 6*Section C: Itemized Inventory Management***Term**

Inventory ordering system

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Inventory models for the replenishment of inventory. Independent demand inventory ordering models include fixed reorder cycle, fixed reorder quantity, optional replenishment, and hybrid models, among others. Dependent demand inventory ordering models include material requirements planning, kanban, and drum-buffer-rope.

Module 6*Section C: Itemized Inventory Management***Term**

Order point system

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An inventory replenishment system based on the stock on hand plus on order. Syn: statistical order point system. See: order point, reorder point, fixed reorder quantity inventory model, hybrid inventory system.

Module 6*Section C: Itemized Inventory Management***Term**

Order point

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A set inventory level where, if the total stock on hand plus on order falls to or below that point, action is taken to replenish the stock. [It] is normally calculated as forecasted usage during the replenishment lead time plus safety stock. Syn: reorder point, statistical order point, trigger level. See: fixed reorder quantity inventory model.

Module 6*Section C: Itemized Inventory Management***Term**

Replenishment lead time

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The total period of time that elapses from the moment it is determined that a product should be reordered until the product is back on the shelf available for use. Syn: reorder cycle.

Module 6*Section C: Itemized Inventory Management***Term**

Sawtooth diagram

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A quantity-versus-time graphic representation of the order point/order quantity inventory system showing inventory being received and then used up and reordered.

Module 6*Section C: Itemized Inventory Management***Term**

Perpetual inventory record

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A computer record or manual document on which each inventory transaction is posted so that a current record of the inventory is maintained.

Module 6*Section C: Itemized Inventory Management***Term**

Visual review system

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A simple inventory control system where the inventory reordering is based on actually looking at the amount of inventory on hand. Usually used for low-value items, such as nuts and bolts. See: two-bin inventory system.

Module 6*Section C: Itemized Inventory Management***Term**

Two-bin inventory system

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A type of fixed-order system in which inventory is carried in two [containers]. A replenishment quantity is ordered when the first [container] (working) is empty. During the replenishment lead time, material is used from the second [container]. When the material is received, the second [container] (which contains a quantity to cover demand during lead time plus some safety stock) is refilled and the excess is put into the working [container]. At this time, stock is drawn from the first [container] until it is again exhausted. Also used loosely to describe any fixed-order system even when physical [containers] do not exist. Syn: bin reserve system. See: visual review system.

Module 6*Section C: Itemized Inventory Management***Term**

Fixed reorder cycle inventory model

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A form of independent demand management model in which an order is placed every n time units. The order quantity is variable and essentially replaces the items consumed during the current time period. If M is the maximum inventory desired at any time and x is the quantity on hand at the time the order is placed, then in the simplest model, the order quantity equals M minus x . The quantity M must be large enough to cover the maximum expected demand during the lead time plus a review interval. The order quantity model becomes more complicated whenever the replenishment lead time exceeds the review interval, because outstanding orders then have to be factored into the equation. Syn: fixed-interval order system, fixed order quantity system, order level system, periodic review system, time-based order system. See: fixed reorder quantity inventory model, hybrid inventory system, independent demand item management models, optional replenishment model.

Module 6*Section C: Itemized Inventory Management***Term**

Periodic replenishment

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A method of aggregating requirements to place deliveries of varying quantities at evenly spaced time intervals rather than variably spaced deliveries of equal quantities.

Module 6*Section C: Itemized Inventory Management***Term**

Min-max system

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A type of order point replenishment system where the minimum (min) is the order point, and the maximum (max) is the “order up to” inventory level. The order quantity is variable and is the result of the max minus available and on-order inventory. An order is recommended when the sum of the available and on-order inventory is at or below the min.

Module 6*Section C: Itemized Inventory Management***Term**

Economic order quantity (EOQ)

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A type of fixed order quantity model that determines the amount of an item to be purchased or manufactured at one time. The intent is to minimize the combined costs of acquiring and carrying inventory. [To calculate this find the square root of $((2AS)/(iC))$ where A = annual usage in units, S = ordering costs in dollars, i = annual inventory carrying cost rate as a decimal, and C = unit cost.] Syn: economic lot size, minimum cost order quantity. See: total cost curve.

Module 6*Section C: Itemized Inventory Management***Term**

Lot size

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The amount of a particular item that is ordered from the plant or a supplier or issued as a standard quantity to the production process. Syn: order quantity.

Module 6*Section C: Itemized Inventory Management***Term**

Lot-for-lot (L4L)

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A lot-sizing technique that generates planned orders in quantities equal to the net requirements in each period. See: discrete order quantity.

Module 6*Section C: Itemized Inventory Management***Term**

Point of sale (POS)

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The relief of inventory and computation of sales data at the time and place of sale, generally through the use of bar coding or magnetic media and equipment.

Module 6*Section C: Itemized Inventory Management***Term**

Fixed order quantity

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A lot-sizing technique in MRP or inventory management that will always cause planned or actual orders to be generated for a predetermined fixed quantity, or multiples thereof, if net requirements for the period exceed [this].

Module 6*Section C: Itemized Inventory Management***Term**

Reorder quantity

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1) In a fixed [type of this] system of inventory control, the fixed quantity that should be ordered each time the available stock (on-hand plus on-order) falls to or below the reorder point. 2) In a variable [type of this] system, the amount ordered from time period to time period varies. Syn: replenishment order quantity.

Module 6*Section C: Itemized Inventory Management***Term**

Period order quantity

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A lot-sizing technique under which the lot size is equal to the net requirements for a given number of periods (e.g., weeks into the future). The number of periods to order is variable, each order size equalizing the holding costs and the ordering costs for the interval. See: discrete order quantity, dynamic lot sizing.

Module 6*Section C: Itemized Inventory Management***Term**

Service level agreement (SLA)

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A document that represents the terms of performance for organic support.

Module 6*Section C: Itemized Inventory Management***Term**

Level of service

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A measure (usually expressed as a percentage) of satisfying demand through inventory or by the current production schedule in time to satisfy the customers' requested delivery dates and quantities. In a make-to-stock environment, [this] is sometimes calculated as the percentage of orders picked complete from stock upon receipt of the customer order, the percentage of line items picked complete, or the percentage of total dollar demand picked complete. In make-to-order and design-to-order environments, [it] is the percentage of times the customer-requested or acknowledged date was met by shipping complete product quantities. Syn: measure of service, service level. See: cycle service level.

Module 6*Section C: Itemized Inventory Management***Term**

On-time schedule performance

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A measure (percentage) of meeting the customer's originally negotiated delivery request date. Performance can be expressed as a percentage based on the number of orders, line items, or dollar value shipped on time.

Module 6*Section C: Itemized Inventory Management***Term**

Stockout percentage

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A measure of the effectiveness with which a company responds to actual demand or requirements. [It] can be a comparison of total orders containing a stockout to total orders, or of line items incurring stockouts to total line items ordered during a [period...].

Module 6*Section C: Itemized Inventory Management***Term**

Cold chain

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A term referring to the storage, transfer, and supply chain of temperature-controlled products. Industries in the cold chain include food and agriculture, pharmaceuticals, and chemicals.

Module 6*Section C: Itemized Inventory Management***Term**

Hazardous materials

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Any material that a country's relevant government agency has classified as a risk to human, animal, or environmental health or to property—either on its own or due to interaction with other elements. A government's transportation authority may allow transportation only when proper permits and safety precautions are implemented. Similarly, a government may regulate or supervise hazardous material disposal. Categories include explosives, flammable or corrosive liquids or gasses, biohazards, and radioactive materials.

Module 6*Section C: Itemized Inventory Management***Term**

Safety data sheet (SDS)

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A document that is part of the materials information system and accompanies the product. Formerly referred to as the manufacturing safety data sheet (MSDS). The document is prepared by the manufacturer and provides information regarding the safety and chemical properties to downstream users and (if necessary) the long-term storage, handling, and disposal of the product. Among other factors, the SDS describes: the hazardous components of a product; how to treat leaks, spills, and fires; and how to treat improper human contact with the product.

Module 6*Section C: Itemized Inventory Management***Term**

Hazardous waste

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Waste, such as chemicals or nuclear material, that is hazardous to humans or animals and requires special handling.

Module 6*Section C: Itemized Inventory Management***Term**

Maintenance, repair, and overhaul (MRO)

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An item for reprocessing in the remanufacturing industry.

Module 6*Section C: Itemized Inventory Management***Term**

Mean time between failures (MTBF)

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The average time interval between failures for repairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability.

Module 6*Section C: Itemized Inventory Management***Term**

Mean time for failures (MTFF)

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Average time for failure of a nonrepairable product (expected life) or average time to first failure of a repairable product. See: reliability.

Module 6*Section C: Itemized Inventory Management***Term**

Mean time to repair (MTTR)

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The average time that it takes to repair a product.

Module 6*Section D: Inventory Control***Term**

Electronic commerce (e-commerce)

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The use of computer and telecommunication technologies to conduct business via electronic transfer of data and documents.

Module 6*Section D: Inventory Control***Term**

Physical inventory

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1) The actual inventory itself. 2) The determination of inventory quantity by actual count. [It] can be taken on a continuous, periodic, or annual basis. Syn: annual inventory count, annual physical inventory. See: periodic inventory.

Module 6*Section D: Inventory Control***Term**

Record accuracy

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A measure of the conformity of recorded values in a bookkeeping system to the actual values; for example, the on-hand balance of an item maintained in a computer record relative to the actual on-hand balance of the items in the stockroom.

Module 6*Section D: Inventory Control***Term**

Inventory accuracy

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When the on-hand quantity is within an allowed tolerance of the recorded balance. This important metric usually is measured as the percent of items with inventory levels that fall within tolerance. Target values usually are 95 percent to 99 percent, depending on the value of the item. For logistical operations (location management) purposes, it is sometimes measured as the number of storage locations with errors divided by the total number of storage locations.

Module 6*Section D: Inventory Control***Term**

Shrinkage

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Reductions of actual quantities of items in stock, in process, or in transit. The loss may be caused by scrap, theft, deterioration, evaporation, and so forth.

Module 6*Section D: Inventory Control***Term**

Obsolescence

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1) The condition of being out of date. A loss of value occasioned by new developments that place the older property at a competitive disadvantage. A factor in depreciation. 2) A decrease in the value of an asset brought about by the development of new and more economical methods, processes, or machinery. 3) The loss of usefulness or worth of a product or facility as a result of the appearance of better or more economical products, methods, or facilities.

Module 6*Section D: Inventory Control***Term**

Cut-off control

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A procedure for synchronizing cycle counting and transaction processing.

Module 6*Section D: Inventory Control***Term**

Periodic inventory

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A physical inventory taken at some recurring interval (e.g., monthly, quarterly, or annual physical inventory). See: physical inventory.

Module 6*Section D: Inventory Control***Term**

Inventory adjustment

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A change made to an inventory record to correct the balance in order to bring it in line with actual physical inventory balances. The adjustment either increases or decreases the item record on-hand balance.

Module 6*Section D: Inventory Control***Term**

Cycle counting

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An inventory accuracy audit technique where inventory is counted on a cyclic schedule rather than once a year. A cycle inventory count is usually taken on a regular, defined basis (often more frequently for high-value or fast-moving items and less frequently for low-value or slow-moving items). [the most effective of these] systems require the counting of a certain number of items every workday with each item counted at a prescribed frequency. The key purpose of [this] is to identify items in error, thus triggering research, identification, and elimination of the cause of the errors.

Module 6*Section D: Inventory Control***Term**

Traceability

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1) The attribute allowing the ongoing location of a shipment to be determined. 2) The registering and tracking of parts, processes, and materials used in production, by lot or serial number.

Module 6*Section D: Inventory Control***Term**

Free on board (FOB)

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A shipping term which indicates at what point respective obligations, costs, and risk involved in the delivery of goods shift from the seller to the buyer.

Module 6*Section D: Inventory Control***Term**

Incoterms

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A series of pre-defined commercial terms published by the International Chamber of Commerce relating to international commercial law. These terms do not cover property rights.

Module 6*Section D: Inventory Control***Term**

Recalls

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A step in the reverse logistics process where parts or products are returned due to a product defect or potential hazard resulting from government regulations or liability concerns.

Module 6*Section D: Inventory Control***Term**

Blockchain

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A continuously growing list of records, called blocks, which are linked and secured using cryptography. Each block typically contains a cryptographic hash of the previous block, a timestamp and transaction data. The data in any given block cannot be altered retroactively without the alteration of all subsequent blocks, inherently making it resistant to modification. See: cryptocurrency.

Module 6*Section D: Inventory Control***Term**

Certificate of origin

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A document attesting to a shipment's country of origin.

Module 6*Section D: Inventory Control***Term**

Certificate of manufacture

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A certificate that attests that the goods were manufactured in the exporter's country. It is provided and signed by the exporter's chamber of commerce.

Module 6*Section D: Inventory Control***Term**

Shipper's export declaration (SED)

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An export/import document prepared by the shipper before a shipment can be exported and presented to a government authority of the country in which the shipper resides. Specifies details on the goods to be shipped, including their value, weight, and destination.

Module 6*Section D: Inventory Control***Term**

Lot traceability

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The ability to identify the lot or batch number of product in terms of one or all of the following: its composition, purchased parts, manufacturing date, or shipped items. In certain regulated industries, [this] may be a legislative requirement.

Module 6*Section D: Inventory Control***Term**

Lot control

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A set of procedures (e.g., assigning unique batch numbers and tracking each batch) used to maintain lot integrity from raw materials from the supplier through manufacturing to consumers.

Module 6*Section D: Inventory Control***Term**

Advance ship notice (ASN)

An electronic data interchange (EDI) notification of shipment of product.