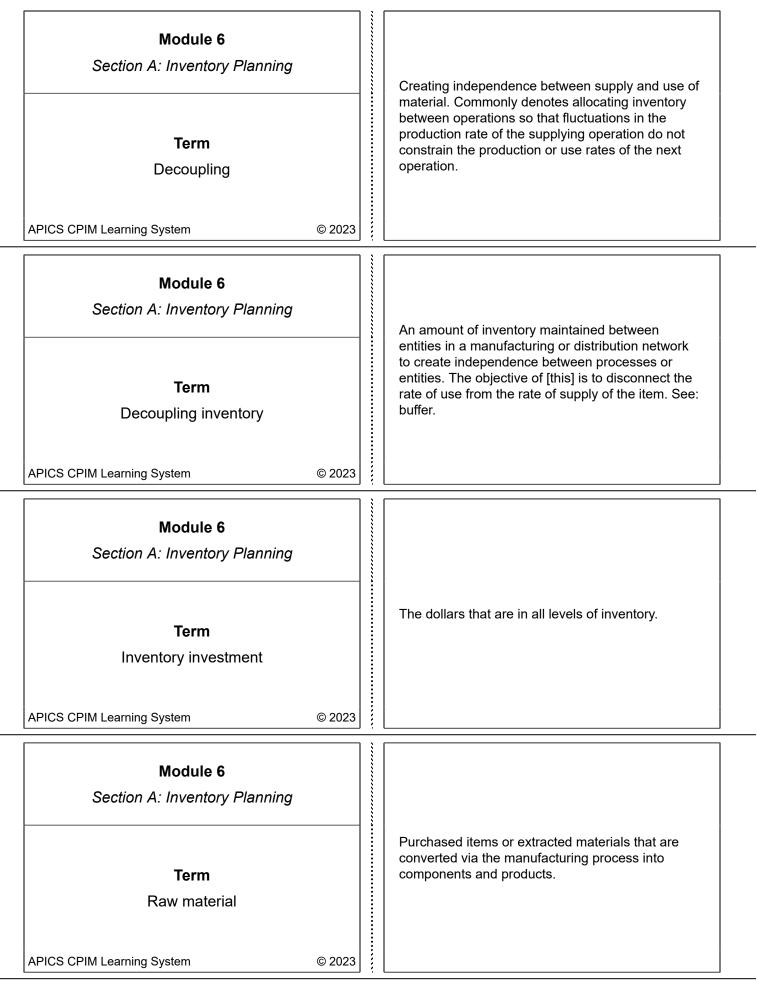
Fold each printed sheet in half lengthwise. The left side of the document will list the term and the right side will list the definition. Tape or staple the open edges of your flashcards. Cut out your flashcards on the solid lines indicated and fold them on the dotted lines.

| Module 6 Section C: Itemized Inventory Manage Term Safety lead time | ment | 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. |
|--|--------|---|
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | 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 |
| Term Inventory | @ 2022 | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning Term Inventory management | | The branch of business management concerned with planning and controlling inventories. |
| APICS CPIM Learning System | © 2023 | |

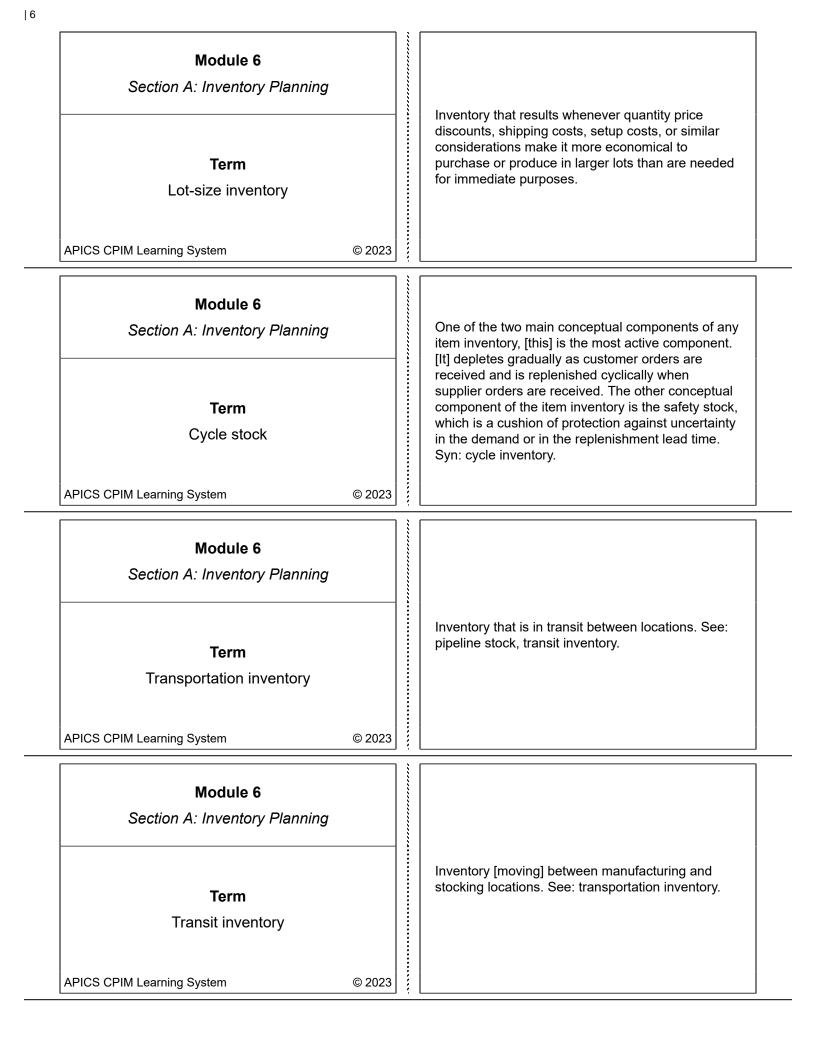


| | | , |
|---|--------|--|
| Module 6 Section A: Inventory Planning | | A good or goods in various stages of completion throughout the plant, including all material from raw material that has been released for initial |
| Term Work in process (WIP) | | processing up to completely processed material 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | |
| Term Semifinished goods | | Products that have been stored in an uncompleted state and are awaiting final operations that will adapt them to different uses or customer specifications. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | |
| Term Finished goods inventory | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning Term Distribution inventory | | Inventory, usually spare parts and finished goods, located in the distribution system (e.g., in warehouses or in transit between warehouses and the consumer). |
| APICS CPIM Learning System | © 2023 | |

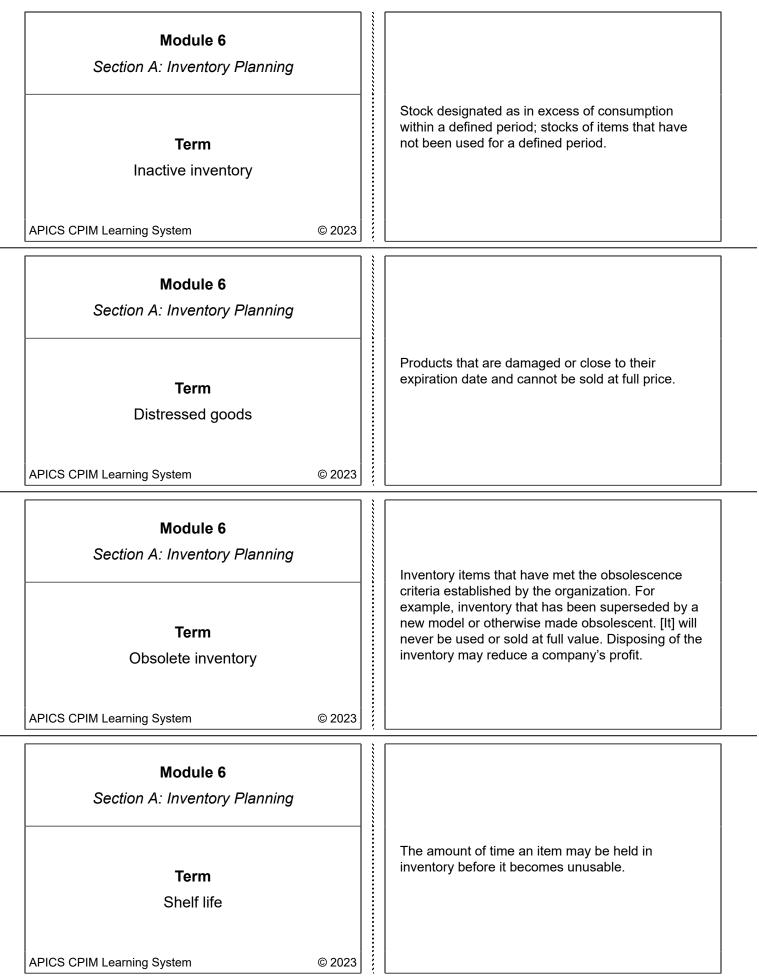
|3

| 4 | | | | |
|---|---|--------|-------|--|
| | Module 6 Section A: Inventory Planning Term Maintenance, repair, and operating (MRO) supplies | © 2023 | | 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. |
| | | | · L | |
| | Module 6 Section A: Inventory Planning Term Service parts | | | Those modules, components, and elements that are planned to be used without modification to replace an original part. Syn: repair parts, spare parts. |
| | | | | |
| | APICS CPIM Learning System | © 2023 | | |
| | Module 6 Section A: Inventory Planning | | | 1) In general, a quantity of stock planned to be in inventory to protect against fluctuations in demand |
| | Term Safety stock | | | 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. |
| | APICS CPIM Learning System | © 2023 | ŧι | |
| | Module 6 Section A: Inventory Planning Term Fluctuation inventory | | ***** | Inventory that is carried as a cushion to protect against forecast error. Syn: fluctuation stock. See: inventory buffer. |
| | | | | |
| | APICS CPIM Learning System | © 2023 | | |
| | | - | | |

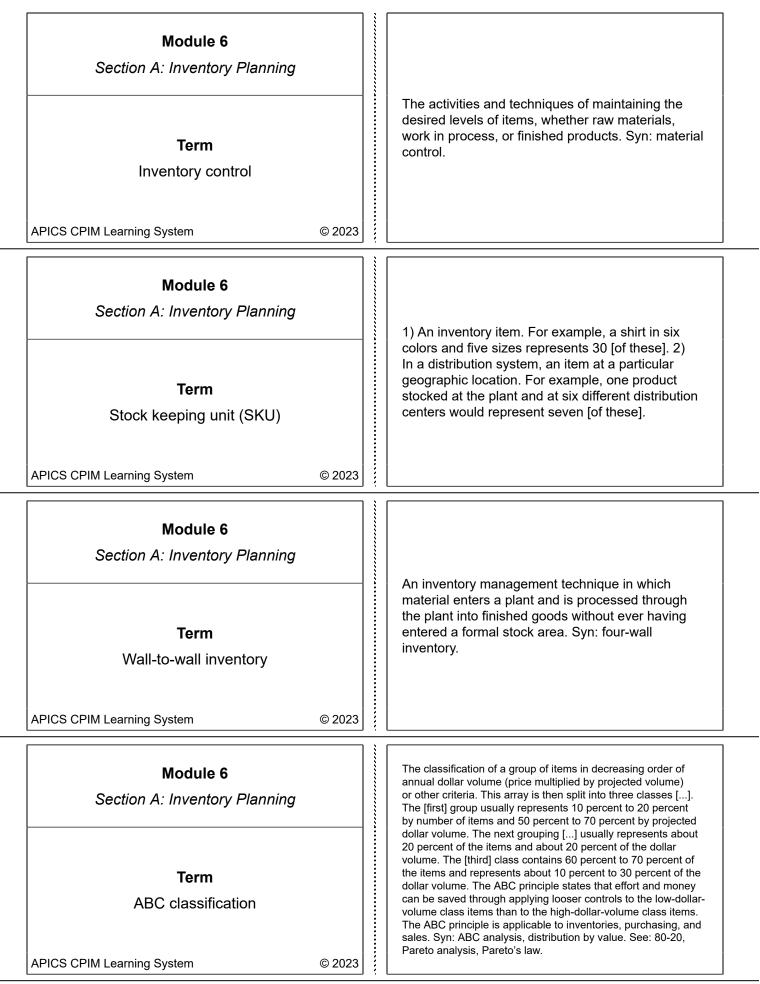
| Module 6 Section A: Inventory Planning | | Inventory used to protect the throughput of an |
|---|--------|---|
| Term Inventory buffer | | operation or the schedule against the negative effects caused by delays in delivery, quality problems, delivery of an incorrect quantity, and so on. Syn: inventory cushion. See: fluctuation inventory, safety stock. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | 1) A quantity of materials awaiting further processing. It can refer to raw materials, semifinished stores or hold points, or a work |
| Term Buffer | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | |
| Term Anticipation inventories | | Additional inventory above basic pipeline stock to cover projected trends of increasing sales, planned sales promotion programs, seasonal fluctuations, plant shutdowns, and vacations. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section A: Inventory Planning | | |
| Term Seasonal inventory | | Inventory built up to smooth production in anticipation of a peak seasonal demand. Syn: seasonal stock. |
| APICS CPIM Learning System | © 2023 | |



| | | | | | 7 |
|----------------------------|-----------------------------------|--------|-----------------|--|---|
| | l ule 6 entory Planning | | i | Inventory in the transportation network and the distribution system, including the flow through intermediate stocking points. The flow time through | |
| | erm ne stock | | | nventory required in the pipeline. Time factors nvolve order transmission, order processing, scheduling, shipping, transportation, receiving, stocking, review time, and so forth. Syn: pipeline nventory. See: distribution system, transportation | |
| APICS CPIM Learning System |) | © 2023 | | | |
| | l ule 6 entory Planning | | | | |
| | e rm inventory | | usual finish | Material moving between two or more locations, usually separated geographically; for example, finished goods being shipped from a plant to a distribution center. | |
| APICS CPIM Learning System |) | © 2023 | | | |
| | l ule 6 entory Planning | | | A form of inventory buildup to buffer against some event that may not happen. [Planning] involves | |
| Hedge | e rm nventory | | | speculation related to potential labor strikes, price ncreases, unsettled governments, and events that could severely impair a company's strategic nitiatives. Risk and consequences are unusually high, and top management approval is often required. | |
| APICS CPIM Learning System | | © 2023 | <u>;</u> | | |
| | l ule 6 entory Planning | | | Any inventory in the system that exceeds the minimum amount necessary to achieve the desired | |
| | e rm inventory | | | 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. | |
| APICS CPIM Learning System | 1 | © 2023 | | | |



| | | | | 9 |
|---|--|--------|--|---|
| | Module 6 Section A: Inventory Planning Term Scrap | | Material outside of specifications and possessing characteristics that make rework impractical. | |
| A | PICS CPIM Learning System | © 2023 | 3 | |
| | Module 6 Section A: Inventory Planning | | | |
| | Term Rework | | Reprocessing to salvage a defective item or part. | |
| A | PICS CPIM Learning System | © 2023 | 3 1 | |
| | Module 6 Section A: Inventory Planning | | | |
| | Term Inventory policy | | A statement of a company's goals and approach to the management of inventories. | |
| A | PICS CPIM Learning System | © 2023 | 3 | |
| | Module 6 Section A: Inventory Planning | | | |
| | Term Aggregate inventory management | | Establishing the overall level (dollar value) of inventory desired and implementing controls to achieve this goal. | |
| A | PICS CPIM Learning System | © 2023 | 3 | |



| Module 6 | | |
|--|--------|--|
| Section B: Inventory and Product Costs, Value, and Metrics | | 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 |
| Term Carrying cost | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product | | |
| Costs, Value, and Metrics | | The costs that increase as the number of orders |
| Term Ordering cost | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | Coordinating the lot sizing and order release decision for related items and treating them as a |
| Term Joint replenishment | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | |
| Term Stockout costs | | 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 | | 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. |
|--|--------|---|
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Managerial accounting | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Cost accounting APICS CPIM Learning System | © 2023 | 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 | | 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. |
| Term Balance sheet | | |

| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Liabilities | | 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. |
|--|--------|---|
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | An accounting/financial term (balance sheet |
| Term Owner's equity | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | |
| Term Income statement | | A financial statement showing the net income for a business over a given period of time. See: balance sheet, funds flow statement. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | An accounting classification useful for determining |
| Term Cost of goods sold (COGS) | | 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. |
| APICS CPIM Learning System | © 2023 | |

| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Direct labor | © 2023 | | Labor that is specifically applied to the good being manufactured or used in the performance of the service. Syn: touch labor. |
|---|--------|---|---|
| | 0 2020 | <u> </u> | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | ***** | |
| Term Direct material | | ••••••••••••••••••••••••••••••••••••••• | Material that becomes a part of the final product in measurable quantities. |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | ••••••••••••••••••••••••••••••••••••••• | The costs incurred in the operation of a business that cannot be directly related to the individual goods or services produced. These costs, such |
| Term Overhead | | ••••••••••••••••••••••••••••••••••••••• | 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. |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | | Traditionally, all manufacturing costs—other than |
| Term Fixed overhead | | | 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. |
| APICS CPIM Learning System | © 2023 | | |

| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Gross margin | | The difference between total revenue and the cost of goods sold. Syn: gross profit margin. |
|---|----------------|---|
| APICS CPIM Learning System | © 2023 | 3 |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term | | The category of expenses on an income statement that includes the costs of general managers, computer systems, research and development, etc. |
| General and administrative expenses (C | G&A) © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | 1) The difference between the sales and cost of goods sold for an organization, sometimes |
| Term Profit margin | | 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. |
| APICS CPIM Learning System | © 2023 | 3 |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | The net flow of dollars into or out of the proposed |
| Term Cash flow | | project. The algebraic sum, in any time period, of all cash receipts, expenses, and investments. Also called cash proceeds or cash generated. |
| APICS CPIM Learning System | © 2023 | 3 |

| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Unit cost APICS CPIM Learning System | © 2023 | 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 APICS CPIM Learning System | © 2023 | 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 APICS CPIM Learning System | © 2023 | 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 APICS CPIM Learning System | © 2023 | 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. | |

| Modulo 6 | |
|--|--|
| Module 6Section B: Inventory and Product Costs, Value, and MetricsTerm Inventory accountingInventory accountingNewtory accountingAPICS CPIM Learning System© 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Accounting practices that conform to conventions, rules, and procedures that are generally accepted by the accounting profession. | |
| Generally accepted accounting principles (GAAP) APICS CPIM Learning System | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics A method of inventory valuation for accounting purposes. The accounting assumption is that the | |
| Term [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. APICS CPIM Learning System © 2023 | |
| | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics A method of inventory valuation for accounting purposes. The accounting assumption is that the | |
| TermLast in, first out (LIFO)FormLast in, first out (LIFO) | |
| APICS CPIM Learning System © 2023 | |

| 18 | | | |
|----|--|--------|---|
| | Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Specific identification APICS CPIM Learning System | © 2023 | 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 | | 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. |
| | APICS CPIM Learning System | © 2023 | |
| | Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Standard costs APICS CPIM Learning System | © 2023 | 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 | © 2023 | 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 | | A cost system that collects costs historically as they are applied to production and allocates indirect |
| Term Actual cost system | | costs to products based on the specific costs and achieved volume of the products. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | A cost accounting system in which costs are |
| Term Job costing | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | |
| Term Transfer pricing | | The pricing of goods or services transferred from one segment of a business to another. See: interplant transfer. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | 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 con specifically be traced and is economically feasible |
| Term Direct costs | | 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. |
| APICS CPIM Learning System | © 2023 | |

| 20 | | | | |
|----|---|--------|--------|--|
| | Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Indirect costs | © 2023 | | 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. |
| | | 0 2020 | | |
| | Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Product cost APICS CPIM Learning System | © 2023 | | 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. |
| | | | 2 | |
| | Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | | 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 |
| | | | | |
| | Term Absorption costing APICS CPIM Learning System | © 2023 | •••••• | of direct labor hours, machine hours, or material costs. Syn: allocation costing. See: activity-based costing. |
| | | © 2023 | | of direct labor hours, machine hours, or material costs. Syn: allocation costing. See: activity-based |
| | Absorption costing | © 2023 | | of direct labor hours, machine hours, or material costs. Syn: allocation costing. See: activity-based |

| | 3 | |
|--|--------|---|
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | A cost accounting system in which the costs are |
| Term Process costing | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | A method of costing used in batch manufacturing |
| Term Operation costing | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | A cost accounting system that accumulates costs based on activities performed and then uses |
| Term Activity-based cost accounting | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | |
| Term Cost object driver | | In activity-based cost accounting, a numerical measure of the demand placed on one cost object by other cost objects. |
| APICS CPIM Learning System | © 2023 | |

| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Activity-based management (ABM) APICS CPIM Learning System | © 2023 | | 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 APICS CPIM Learning System | © 2023 | | 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 APICS CPIM Learning System | © 2023 | | 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 APICS CPIM Learning System | © 2023 | | 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. |
| | Section B: Inventory and Product Costs, Value, and Metrics Term Activity-based management (ABM) APICS CPIM Learning System Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Cost control APICS CPIM Learning System Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Cost variance APICS CPIM Learning System Module 6 Section B: Inventory and Product Costs, Value, and Metrics | Section B: Inventory and Product Costs, Value, and Metrics Term Activity-based management (ABM) APICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Costs, Value, and Metrics PICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Costs, Value, and Metrics Erm Cost variance APICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Costs, Value, and Metrics Erm Cost variance APICS CPIM Learning System © 2023 | Section B: Inventory and Product Costs, Value, and Metrics Term Activity-based management (ABM) APICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Costs, Value, and Metrics PICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Costs, Value, and Metrics Erm Cost variance APICS CPIM Learning System © 2023 Module 6 Section B: Inventory and Product Cost variance APICS CPIM Learning System © 2023 |

| | | | | 23 |
|---|--------|---|--|----|
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Non-value-added | © 2023 | | 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. | |
| | @ 2023 | : [| | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | | 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) | |
| Term Muda (waste) | | | transportation—unneeded 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. | |
| APICS CPIM Learning System | © 2023 | | | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Muri APICS CPIM Learning System | © 2023 | | A Japanese word meaning strain or overburden. | |
| |] | : L } [| | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Mura | | *************************************** | A Japanese word meaning unevenness or variability. | |
| APICS CPIM Learning System | © 2023 | | | |

| l de la constante de | | | |
|--|--------|---|--|
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term Nonconformity | | *************************************** | Failure to fulfill a specified requirement. See: blemish, defect, imperfection. |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics Term | | ******************************** | 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 |
| Shingo's seven wastes APICS CPIM Learning System | © 2023 | | processing itself. |
| Module 6 Section B: Inventory and Product Costs, Value, and Metrics | | | Continually balancing the number of workers in |
| Term Shojinka | | | 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. |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section C: Itemized Inventory Manager | nent | | Inventory models for the replenishment of inventory. Independent demand inventory ordering models |
| Term Inventory ordering system | | | 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. |
| APICS CPIM Learning System | © 2023 | | |

| | 2: |
|--|--|
| Module 6 Section C: Itemized Inventory Management Term Order point system | 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. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | A set inventory level where, if the total stock on hand plus on order falls to or below that point, |
| Term Order 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. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | |
| Term Replenishment lead time | 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. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | |
| Term Sawtooth diagram | A quantity-versus-time graphic representation of the order point/order quantity inventory system showing inventory being received and then used up and reordered. |
| APICS CPIM Learning System © 2023 | |

| 26 | |
|--|--|
| Module 6 Section C: Itemized Inventory Management Term Perpetual inventory record APICS CPIM Learning System | 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 APICS CPIM Learning System | 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 APICS CPIM Learning System | 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 | 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 |
| APICS CPIM Learning System © 2023 | inventory system, independent demand item management models, optional replenishment model. |

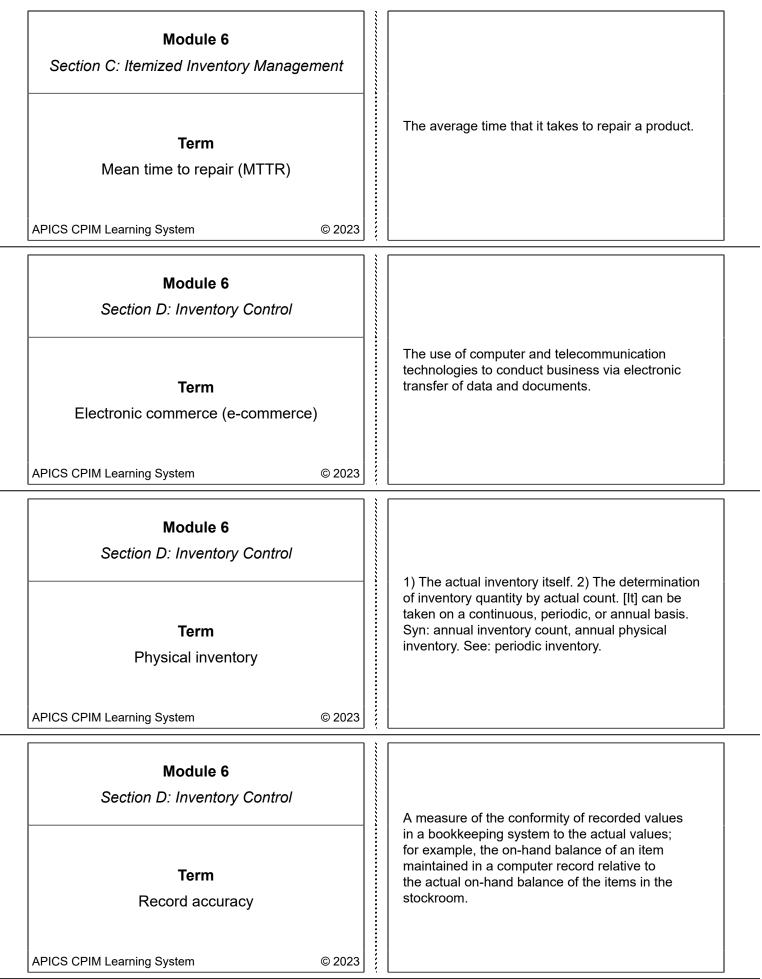
| | 27 |
|---|--|
| Module 6 Section C: Itemized Inventory Management Term Periodic replenishment | A method of aggregating requirements to place deliveries of varying quantities at evenly spaced time intervals rather than variably spaced deliveries of equal quantities. |
| Module 6 Section C: Itemized Inventory Management Term Min-max system | 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. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management Term Economic order quantity (EOQ) APICS CPIM Learning System | 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 APICS CPIM Learning System © 2023 | 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. |

| 28 | | | | |
|----|--|--------|---|---|
| | Module 6 Section C: Itemized Inventory Managen Term Lot-for-lot (L4L) | nent | *************************************** | A lot-sizing technique that generates planned orders in quantities equal to the net requirements in each period. See: discrete order quantity. |
| AP | PICS CPIM Learning System | © 2023 | | |
| | Module 6 Section C: Itemized Inventory Managen Term Point of sale (POS) | nent | | 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. |
| AP | PICS CPIM Learning System | © 2023 | | |
| | Module 6 Section C: Itemized Inventory Managen | nent | | |
| | Term Fixed order quantity | | | 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]. |
| AP | PICS CPIM Learning System | © 2023 | •••• | |
| | Module 6 Section C: Itemized Inventory Managen | nent | · · · · · · · · · · · · · · · · · · · | 1) In a fixed [type of this] system of inventory control, the fixed quantity that should be ordered |
| | Term Reorder quantity | | | 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. |
| AP | PICS CPIM Learning System | © 2023 | | |

| Module 6 Section C: Itemized Inventory Management Term Period order quantity | 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. |
|---|---|
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management Term Service level agreement (SLA) | A document that represents the terms of performance for organic support. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | 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- |
| Term Level of service | 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. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | A measure (percentage) of meeting the sustemor's |
| Term On-time schedule performance | 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. |
| APICS CPIM Learning System © 2023 | |

| 30 | |
|---|---|
| Module 6 Section C: Itemized Inventory Management Term Stockout percentage | 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]. |
| APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management Term | 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. |
| Cold chain APICS CPIM Learning System © 2023 | |
| Module 6 Section C: Itemized Inventory Management | 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. |
| Term Hazardous materials APICS CPIM Learning System © 2023 | 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 | A document that is part of the materials information system and accompanies the product. Formerly referred to as the manufacturing safety data |
| Term Safety data sheet (SDS) APICS CPIM Learning System © 2023 | 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 APICS CPIM Learning System Module 6 Section C: Itemized Inventory Management Module 6 Section C: Itemized Inventory Management Module 6 Section C: Itemized Inventory Management Aritem for reprocessing in the remanufacturing industry. Aritem for reprocessing in the remanufacturing industry. APICS CPIM Learning System © 2023 Maintenance, repair, and overhaul (MRO) An item for reprocessing in the remanufacturing industry. APICS CPIM Learning System © 2023 Module 6 Section C: Itemized Inventory Management Module 6 Section C: Itemized Inventory Management Module 6 Section C: Itemized Inventory Management Term The average time interval between failures for reparable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
|---|
| Module 6 Section C: Itemized Inventory Management Term Maintenance, repair, and overhaul (MRO) APICS CPIM Learning System © 2023 Module 6 Section C: Itemized Inventory Management Term The average time interval between failures for repairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
| Section C: Itemized Inventory Management An item for reprocessing in the remanufacturing industry. Term An item for reprocessing in the remanufacturing industry. APICS CPIM Learning System © 2023 Module 6 Section C: Itemized Inventory Management Term The average time interval between failures for repairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
| Term industry. Maintenance, repair, and overhaul (MRO) industry. APICS CPIM Learning System © 2023 Module 6 Section C: Itemized Inventory Management Term 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 The average time interval between failures for repairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
| Section C: Itemized Inventory Management The average time interval between failures for repairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
| Termrepairable product for a defined unit of measure (e.g., operating hours, cycles, miles). See: reliability. |
| |
| APICS CPIM Learning System © 2023 |
| Module 6 Section C: Itemized Inventory Management |
| TermMean time for failures (MTFF) |
| APICS CPIM Learning System © 2023 |



| | } | | |
|--|--|--------|---|
| 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. | tolera metri | | Module 6 Section D: Inventory Control |
| | Targe depe opera some locati | | Term Inventory accuracy |
| | | © 2023 | APICS CPIM Learning System |
| | | | Module 6 Section D: Inventory Control |
| cess, or in transit. The loss may be caused | 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. | | Term Shrinkage |
| | | © 2023 | APICS CPIM Learning System |
| e condition of being out of date. A loss of occasioned by new developments that place der property at a competitive disadvantage. | value | | Module 6 Section D: Inventory Control |
| asset brought about by the development of ind more economical methods, processes, or inery. 3) The loss of usefulness or worth of a ct or facility as a result of the appearance of or more economical products, methods, or | 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, o 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. | | Term Obsolescence |
| | <u>;</u> | © 2023 | APICS CPIM Learning System |
| | | | Module 6 Section D: Inventory Control |
| cedure for synchronizing cycle counting and action processing. | | | Term Cut-off control |
| | | © 2023 | APICS CPIM Learning System |
| nce of the recorded balance. This important cusually is measured as the percent of items hyentory levels that fall within tolerance. t values usually are 95 percent to 99 percent, nding on the value of the item. For logistical tions (location management) purposes, it is times measured as the number of storage ons with errors divided by the total number of ge locations. ctions of actual quantities of items in stock, cess, or in transit. The loss may be caused rap, theft, deterioration, evaporation, and so e condition of being out of date. A loss of occasioned by new developments that place der property at a competitive disadvantage. or in depreciation. 2) A decrease in the value asset brought about by the development of ind more economical methods, processes, or inery. 3) The loss of usefulness or worth of a ct or facility as a result of the appearance of or more economical products, methods, or es. | tolera metri with i Targe depe opera some locati stora Redu in pro by so forth. 1) Th value the o A fac of an new a produ bette facilit | © 2023 | Section D: Inventory Control Term Inventory accuracy APICS CPIM Learning System Module 6 Section D: Inventory Control Term Shrinkage APICS CPIM Learning System Module 6 Section D: Inventory Control Term Shrinkage APICS CPIM Learning System Module 6 Section D: Inventory Control Term Obsolescence APICS CPIM Learning System Module 6 Section D: Inventory Control Term Obsolescence APICS CPIM Learning System Cut-off control |

| 33

| 34 | | | |
|----|--|--------|---|
| | Module 6 Section D: Inventory Control | | |
| | Term Periodic inventory | | A physical inventory taken at some recurring interval (e.g., monthly, quarterly, or annual physical inventory). See: physical inventory. |
| | APICS CPIM Learning System | © 2023 | |
| | Module 6 Section D: Inventory Control | | A change made to an inventory record to correct |
| | Term Inventory adjustment | | 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. |
| | APICS CPIM Learning System | © 2023 | |
| | Module 6 Section D: Inventory Control | | 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 |
| | Term Cycle counting | | 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. |
| | APICS CPIM Learning System | © 2023 | |
| | Module 6 Section D: Inventory Control | | 1) The attribute allowing the ongoing location of a |
| | Term Traceability | | shipment to be determined. 2) The registering and tracking of parts, processes, and materials used in production, by lot or serial number. |
| | APICS CPIM Learning System | © 2023 | |
| | | | |

| | | | 38 |
|---|--------|--|----|
| Module 6 Section D: Inventory Control Term Free on board (FOB) | | 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. | |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section D: Inventory Control | | A series of the defined commercial terms published | |
| Term Incoterms | | 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. | |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section D: Inventory Control | | | |
| Term Recalls | | 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. | |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section D: Inventory Control | | A continuously growing list of records, called blocks, which are linked and secured using cryptography. Each block typically contains a | |
| Term Blockchain | | 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. | |
| APICS CPIM Learning System | © 2023 | | |

| Module 6 Section D: Inventory Control | | | |
|---|---|--|---|
| Term Certificate of origin | | | A document attesting to a shipment's country of origin. |
| APICS CPIM Learning System | © 2023 | ••••• | |
| Module 6 Section D: Inventory Control | | | |
| Term Certificate of manufacture | | | 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. |
| APICS CPIM Learning System | © 2023 | ••••• | |
| Module 6 Section D: Inventory Control | | ******* | An export/import document prepared by the shipper |
| Term Shipper's export declaration (SED) | | be to the to | 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. |
| APICS CPIM Learning System | © 2023 | | |
| Module 6 Section D: Inventory Control | | | The ability to identify the lot or batch number of |
| Term Lot traceability | | product in terms of one or all of the following: its | product in terms of one or all of the following: its composition, purchased parts, manufacturing date, or shipped items. In certain regulated industries, |
| APICS CPIM Learning System | © 2023 | | |
| | Section D: Inventory Control Term APICS CPIM Learning System Module 6 Section D: Inventory Control Module 6 Section D: Inventory Control Term APICS CPIM Learning System Module 6 Section D: Inventory Control Term Shipper's export declaration (SED) APICS CPIM Learning System Module 6 Section D: Inventory Control Term Shipper's export declaration (SED) APICS CPIM Learning System Module 6 Section D: Inventory Control Lot traceability | Section D: Inventory Control Term Certificate of origin APICS CPIM Learning System Certificate of manufacture APICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control Certificate of manufacture APICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control APICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control Certificate of | Section D: Inventory Control Term Certificate of origin APICS CPIM Learning System Section D: Inventory Control Term Certificate of manufacture APICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control Module 6 Section D: Inventory Control PICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control Certificate of manufacture APICS CPIM Learning System © 2023 Module 6 Section D: Inventory Control Certificate of D: Inventory Control APICS CPIM Learning System © 2023 |

| Module 6 Section D: Inventory Control | | |
|--|--------|---|
| Term Lot control | | 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. |
| APICS CPIM Learning System | © 2023 | |
| Module 6 Section D: Inventory Control | | |
| Term Advance ship notice (ASN) | | An electronic data interchange (EDI) notification of shipment of product. |
| APICS CPIM Learning System | © 2023 | |

| 37