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 4 Section A: Planning Operations Term Allocation	© 2024		1) The classification of resources or item quantities that have been assigned to specific orders but have not yet been released from the stockroom to production. It is an "uncashed" stockroom requisition. 2) A process used to distribute material in short supply. Syn.: assignment. See: reservation.	
Module 4 Section A: Planning Operations			1) In operations, the uncommitted portion of a company's inventory and planned production maintained in the master schedule to support customer-order promising. [This] quantity is the uncommitted inventory balance in the first period and is normally calculated for each period in which an MPS receipt is scheduled. In the first period, [this] includes on-hand inventory less customer orders that are due and overdue. Three methods of calculation are used: discrete [], cumulative [] with look-ahead, and cumulative [] without look-ahead. (2) In logistics, the quantity of a finished good that is or will be available to commit to a customer order based on the customer's required ship date. To accommodate deliveries on future dates, [this] is usually time-phased to include anticipated purchases or production receipts. See: discrete available-to- promise, cumulative available-to-promise.	
Term Available-to-promise (ATP) APICS CSCP Learning System	© 2024			
Module 4 Section A: Planning Operations		© 2024	The raw material, part, or subassembly that goe	The raw material, part, or subassembly that goes into a
Term Component APICS CSCP Learning System	© 2024		higher-level assembly, compound, or other item. This term may also include packaging materials for finishe items. See: ingredient, intermediate part.	
		-		
Module 4 Section A: Planning Operations			The longest planned length of time to accomplish the activity in question. It is found by reviewing the lead time for each bill of material path below the item; [this	
Term Cumulative lead time			term is defined by whichever path adds up to the greatest number]. Syn.: aggregate lead time, combined lead time, composite lead time, critical path lead time, stacked lead time. See: planning horizon, planning time fence.	
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Module 4 Section A: Planning Operations Term Customer order APICS CSCP Learning System	An order from a customer for a particular product or number of products. It is often referred to as an actual demand to distinguish it from a forecasted demand. See: booked orders.
Module 4 Section A: Planning Operations	Demand that is directly related to or derived from the bill-of-material structure for other items or end products. Such demands are therefore calculated and
Term Dependent demand	need not and should not be forecast. A given inventory item may [also have] independent demand at any given time. For example, a part may simultaneously be the component of an assembly and sold as a service part. See: independent demand.
APICS CSCP Learning System © 2024	
Module 4 Section A: Planning Operations	1) The function of determining the need to replenish inventory at branch warehouses. A time-phased order point approach is used where the planned orders at the branch warehouse level are "exploded" via MRP logic to become gross requirements of the supplying source. In the case of multilevel distribution networks, this
Term Distribution requirements planning (DRP)	explosion process can continue down through the various levels of regional warehouses (master warehouse, factory warehouse, etc.) and become input to the master production schedule. Demand on the supplying sources is recognized as dependent, and standard MRP logic applies. 2) More generally, replenishment inventory calculations, which may be based on other planning approaches such as period order quantities or "replace exactly what was used," rather than being limited to the time-phased order point approach.
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Module 4 Section A: Planning Operations	
Term Exception report	A report that lists or flags only those items that deviate from the plan.
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Module 4 Section A: Planning Operations Term Firm planned order (FPO) APICS CSCP Learning System	© 2024		A planned order that can be frozen in quantity and time. The computer is not allowed to change it automatically; this is the responsibility of the planner in charge of the item that is being planned. This technique can aid planners working with MRP systems to respond to material and capacity problems by [solidifying] selected planned orders. In addition, [these] are the normal method of stating the master production schedule. See: planning time fence.
Module 4 Section A: Planning Operations			The demand for an item that is unrelated to the demand for other items. Demand for finished goods,
Term Independent demand	0.0004		parts required for destructive testing, and service parts requirements are examples of independent demand. See: dependent demand.
APICS CSCP Learning System	© 2024	•	
Module 4 Section A: Planning Operations			One plant's need for a part or product that is produced by another plant or division within the same
Term Interplant demand APICS CSCP Learning System	© 2024		organization. Although it is not a customer order, it is usually handled by the master production scheduling system in a similar manner. See: interplant transfer.
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Module 4 Section A: Planning Operations			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
Term Joint replenishment			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.
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Module 4 Section A: Planning Operations	A method for the effective planning of all resources of a manufacturing company. Ideally, it addresses operational planning in units and financial planning in dollars, and has a simulation capability to answer what-if questions. It is made up of a variety of processes, each linked together: business planning, production planning (sales and operations planning) master production scheduling, material requirements planning, capacity requirements planning, and the execution support
Term Manufacturing resource planning (MRP II)	systems for capacity and material. Output from these systems is integrated with financial reports such as the business plan, purchase commitment report, shipping budget, and inventory projections in dollars. [It] is a direct outgrowth and extension of closed-loop MRP.
APICS CSCP Learning System © 2024	
Module 4 Section A: Planning Operations	A line on the master schedule grid that reflects the anticipated build schedule for those items assigned to the master scheduler. The master scheduler maintains this schedule, and in turn, it becomes a set of planning numbers that drives material requirements planning. It represents
Term Master production schedule (MPS)	 what the company plans to produce, expressed in specific configurations, quantities, and dates. [This] is not a sales item forecast that represents a statement of demand. It must take into account the forecast, the production plan, and other important considerations such as backlog, availability of material, availability of capacity, and management policies and goals. See: master schedule.
APICS CSCP Learning System © 2024	
Module 4 Section A: Planning Operations	A format that includes time periods (dates), the forecast, customer orders, projected available balance, available-to-promise, and the master production
Term Master schedule	schedule. It takes into account the forecast; the production plan; and other important considerations such as backlog, availability of material, availability of capacity, and management policies and goals. See: master production schedule.
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Module 4 Section A: Planning Operations	A part number selected to be planned by the master scheduler. [It] is deemed critical in its impact on lower-
Term Master schedule item	 level components or resources such as skilled labor, key machines, or dollars. Therefore, the master scheduler, not the computer, maintains the plan for these items. [This] may be an end item, a component, a pseudo number, or a planning bill of material.

Module 4 Section A: Planning Operations Term Material requirements planning (MR APICS CSCP Learning System	P) © 2024		A set of techniques that uses bill of material data, inventory data, and the master production schedule to calculate requirements for materials. It makes recommendations to release replenishment orders for material. Further, because it is time-phased, it makes recommendations to reschedule open orders when due dates and need dates are not in phase. [When] time-phased, [this concept] begins with the items listed on the MPS and determines (1) the quantity of all components and materials required to fabricate those items and (2) the date that the components and material are required. [Also when] time-phased, [this] is accomplished by exploding the bill of material, adjusting for inventory quantities on hand or on order, and offsetting the net requirements by the appropriate lead times.
Module 4 Section A: Planning Operations			A display of all the components directly or indirectly used in a parent, together with the quantity required of
Term Multilevel bill of material	© 2024		each component. If a component is a subassembly, blend, intermediate, etc., all its components and all their components also will be exhibited, down to purchased parts and raw materials.
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Module 4 Section A: Planning Operations			
Term Open order APICS CSCP Learning System	© 2024		1) A released manufacturing order or purchase order. Syn.: released order. See: scheduled receipt. 2) An unfilled customer order.
Module 4 Section A: Planning Operations			The process of making a delivery commitment (i.e., answering the question, "When can you ship?"). For
Term Order promising			make-to-order products, this usually involves a check of uncommitted material and availability of capacity, often as represented by the master schedule available- to-promise. Syn.: customer order promising, order dating. See: available-to-promise, order service.
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Module 4 Section A: Planning Operations Term Parent item			The item produced from one or more components. Syn.: parent.
APICS CSCP Learning System	© 2024		
Module 4 Section A: Planning Operations			In MRP and MPS, the ability to identify for a given item
Term Pegging			the sources of its gross requirements and/or allocations. [This] can be thought of as active where- used information. See: requirements traceability.
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Module 4 Section A: Planning Operations		2024	A suggested order quantity, release date, and due date created by the planning system's logic when it encounters net requirements in processing MRP. In some cases, it can also be created by a master scheduling module. [These] are created by the computer, exist only within the computer,
Term Planned order APICS CSCP Learning System	© 2024		and may be changed or deleted by the computer during subsequent processing if conditions change. [While at one level, these] will be exploded into gross requirements for components at the next level. [Along with released orders, these] serve as input to capacity requirements planning to show the total capacity requirements by work center in future time periods. See: planning time fence.
Module 4 Section A: Planning Operations			The quantity planned to be received at a future date as
Term Planned order receipt			a result of a planned order release. [These] differ from scheduled receipts in that they have not been released. Syn.: planned receipt.
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Module 4 Section A: Planning Operations			A row on an MRP table that is derived from planned
Term Planned order release			order receipts by taking the planned receipt quantity and offsetting to the left by the appropriate lead time. See: order release.
APICS CSCP Learning System	© 2024		
Module 4 Section A: Planning Operations			The amount of time a plan extends into the future. For a master schedule, this is normally set to cover a minimum of cumulative lead time plus time for lot
Term Planning horizon			sizing low-level components and time for capacity changes of primary work centers or of key suppliers. For longer-term plans, [this] must be long enough to permit any needed additions to capacity. See: cumulative lead time, planning time fence.
APICS CSCP Learning System	© 2024		
Module 4 Section A: Planning Operations			An inventory balance projected into the future. It is the
Term Projected available balance (PAB) APICS CSCP Learning System	© 2024		running sum of on-hand inventory minus requirements plus scheduled receipts and planned orders. Syn.: projected available inventory.
	@ 2024		
Module 4 Section A: Planning Operations		_	1) In production, the production of items only as demanded for use or to replace those taken for use. See: pull signal. 2) In material control, the withdrawal
Term Pull system			of inventory as demanded by the using operations. Material is not issued until a signal comes from the user. 3) In distribution, a system for replenishing field warehouse inventories where replenishment decisions are made at the field warehouse itself, not at the central warehouse or plant.
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Module 4 Section A: Planning Operations Term Push system APICS CSCP Learning System	024	1) In production, the production of items at times required by a given schedule planned in advance. 2) In material control, the issuing of material according to a given schedule or issuing material to a job order at its start time. 3) In distribution, a system for replenishing field warehouse inventories where replenishment decision making is centralized, usually at the manufacturing site or central supply facility. See: pull system.
Module 4 Section A: Planning Operations		
Term Scheduled receipt APICS CSCP Learning System © 2	024	An open order that has an assigned due date. See: open order.
	UZ4 ■	
Module 4 Section A: Planning Operations		A policy or guideline established to note where various restrictions or changes in operating procedures take place. For example, changes to the master production
Term Time fence		schedule can be accomplished easily beyond the cumulative lead time, while changes inside the cumulative lead time become increasingly more difficult to a point where changes should be resisted. [It] can be used to define these points. See: demand time fence, hedge, planning time fence.
APICS CSCP Learning System © 2	024	
Module 4 Section B: Capacity and Production Activit Control	/	A listing of the required capacity and key resources needed to manufacture one unit of a selected item or family. Rough-cut capacity planning uses [these] to
Term Bill of resources		calculate the approximate capacity requirements of the master production schedule. Resource planning may use a form of [this]. Syn.: bill of capacity. See: bill of labor, capacity planning using overall factors, product load profile, resource profile, rough-cut capacity planning, routing.
APICS CSCP Learning System © 2	024	

Module 4 Section B: Capacity and Production Activit Control Term Bottleneck	y 2024	A facility, function, department, or resource whose capacity is less than the demand placed upon it. For example, [this type of] machine or work center exists where jobs are processed at a slower rate than they are demanded. Syn.: bottleneck operation.
Module 4 Section B: Capacity and Production Activit Control	у	The process of measuring production output and
Term Capacity control		comparing it with the capacity plan, determining if the variance exceeds pre-established limits, and taking corrective action to get back on plan if the limits are exceeded. See: input/output control.
APICS CSCP Learning System © 2	024	
Module 4 Section B: Capacity and Production Activit Control	у	The function of establishing, measuring, monitoring, and adjusting limits or levels of capacity in order to execute all manufacturing schedules (i.e., the
Term Capacity management		production plan, master production schedule, material requirements plan, and dispatch list). [It] is executed at four levels: resource requirements planning, rough-cut capacity planning, capacity requirements planning, and input/output control.
APICS CSCP Learning System © 2	024	
Module 4 Section B: Capacity and Production Activit Control	y	The process of determining the amount of capacity required to produce in the future. This process may be performed at an aggregate or product-line level [], at
Term Capacity planning		the master-scheduling level [], and at the material requirements planning level []. See: capacity requirements planning, resource planning, rough-cut capacity planning.
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Module 4 Section B: Capacity and Production Activity Control Term Cycle time APICS CSCP Learning System	1) In industrial engineering, the time between the completion of two discrete units of production. For example, [if] motors [are] assembled at a rate of 120 per hour, [this] is 30 seconds. 2) In materials management, the length of time from when material enters a production facility until it exits. Syn.: throughput time.
Module 4 Section B: Capacity and Production Activity Control	The triggering of material movement to a work center only when that work center is ready to begin the next job. In effect, it shortens or eliminates the queue from
Term Demand pull	in front of a work center, but it can cause a queue at the end of a preceding work center. [This] also can occur within a supply chain, in which case it often is called a demand chain.
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Module 4 Section B: Capacity and Production Activity Control	A measurement (usually expressed as a percentage) of the actual output relative to the standard output expected. [This] measures how well something is performing relative to existing standards; in contrast, productivity measures output relative to a specific input (e.g., tons/labor hour). [It] is the ratio of (1) actual units produced to the standard rate of production expected in a time period, or (2) standard hours produced to
Term Efficiency APICS CSCP Learning System © 2024	actual hours worked (taking longer means less [of this]), or (3) actual dollar volume of output to a standard dollar volume in a time period. For example: (1) There is a standard of 100 pieces per hour and 780 units are produced in one eight-hour shift; [this] is 780 ÷ 800 converted to a percentage, or 97.5 percent. (2) The work is measured in hours and took 8.21 hours to produce 8 standard hours; [this] is 8 ÷ 8.21 converted to a percentage, or 97.5 percent. (3) The work is measured in dollars and produces \$780 with a standard of \$800; [this] is \$780 ÷ \$800 converted to a percentage, or 97.5 percent.
Module 4 Section B: Capacity and Production Activity Control	A method of just-in-time production that uses standard containers or lot sizes with a single card attached to each. It is a pull system in which work centers signal with a card that they wish to withdraw parts from feeding
Term Kanban	operations or suppliers. [This] Japanese word, loosely translated, means card, billboard, or sign, but other signaling devices such as colored golf balls have also been used. The term is often used synonymously for the specific scheduling system developed and used by the Toyota Corporation in Japan. See: move card, production card, synchronized production.
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Module 4 Section B: Capacity and Production Activity Control	work released to a facility, work center, or operation for a specific span of time. Usually expressed in terms of
Term Load	standard hours of work or, when items consume similar resources at the same rate, units of productio Syn.: workload.
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Module 4 Section B: Capacity and Production Activity Control	sequential time periods tends to be distributed even
Term Load leveling	industries may load to one or the other exclusively
APICS CSCP Learning System © 2024	
Module 4 Section B: Capacity and Production Activity Control	
Term Lot size	The amount of a particular item that is ordered from the plant or a supplier or issued as a standard quant to the production process. Syn.: order quantity.
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Module 4 Section B: Capacity and Production Activity Control	exclusive of lower-level purchasing lead time. For make to-order products, it is the length of time between the release of an order to the production process and
Term Manufacturing lead time	shipment to the final customer. For make-to-stock products, it is the length of time between the release an order to the production process and receipt into inventory. Included are order preparation time, queue time, setup time, run time, move time, inspection time and put-away time. Syn.: manufacturing cycle,
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Module 4 Section B: Capacity and Production Activity Control	 The planning and validation of all organizational resources. 2 The effective identification, planning, scheduling, execution, and control of all organizational resources to produce a good or ser that provides customer satisfaction and supports the organizati competitive edge and ultimately, its organizational goals. 3) An emerging field of study emphasizing the systems perspective,
	encompassing both the product and process life cycles, and focusing on the integration of organizational resources toward the effective realization of organizational goals. Resources include materials; maintenance, repair, and operating supplies; production and supporting equipment; facilities; direct and indirect employees staff; administrative and professional employees; information; knowledge; and capital. Syn.: integrated resource management.
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	The standard hours of load placed on a resource by time period. Production lead-time data is taken into
Term Resource profile	account to provide time-phased projections of the capacity requirements for individual production facilities. See: bill of resources, capacity planning usi overall factors, product load profile, rough-cut capacit planning.
APICS CSCP Learning System © 2024	
Control	The process of converting the master production schedul into requirements for key resources often including labor, machinery, warehouse space, suppliers' capabilities, and in some cases, money. Comparison to available or demonstrated capacity is usually done for each key
Term Rough-cut capacity planning (RCCP)	resource. This comparison assists the master scheduler i establishing a feasible master production schedule. Thre approaches to performing [this] are the bill of labor (resources, capacity) approach, the capacity planning usi overall factors approach, and the resource profile approach. See: bill of resources, capacity planning, capacity planning using overall factors, product load profi resource profile.
Control	1) A measure (usually expressed as a percentage) of how intensively a resource is being used to produce a good or service. Compares actual time used to available time. Traditionally, calculated as the ratio of direct time charged (run time plus setup time) to the clock time available. [It] is
Term Utilization	percentage between 0 percent and 100 percent that is equ to 100 percent minus the percentage of time lost due to the unavailability of machines, tools, workers, and so forth. See efficiency, lost time factor, productivity. 2) In the theory of constraints, activation of a resource that productively contributes to reaching the goal. Over-activation of a resource does not productively [use] a resource. See: available time.
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Module 4 Section C: Inventory			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 percet 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
Term ABC classification			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.
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Module 4 Section C: Inventory			The cost required to obtain one or more units of an
Term Acquisition cost			item. Computed as: order quantity times unit cost. See: ordering cost.
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Module 4 Section C: Inventory			Additional inventory above basic pipeline stock to cover
Term Anticipation inventories			projected trends of increasing sales, planned sales promotion programs, seasonal fluctuations, plant shutdowns, and vacations.
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Module 4 Section C: Inventory			An unfilled customer order or commitment. [This is] an
Term Backorder			immediate (or past due) demand against an item whose inventory is insufficient to satisfy the demand. See: stockout.
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Module 4 Section C: Inventory			
Term Buffer			In theory of constraints, time or material that supports throughput and/or due date performance.
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Module 4 Section C: Inventory			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,
Term Carrying cost			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.
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Module 4 Section C: Inventory			
Term Configuration management			Formal procedures to identify and document the physical characteristics of a product or project, control changes, and support an audit to verify conformance.
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Module 4 Section C: Inventory			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
Term Cycle counting			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.
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Module 4 Section C: Inventory Term Cycle stock APICS CSCP Learning System	© 2024	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 4 Section C: Inventory		Creating independence between supply and use of material. Commonly denotes allocating inventory
Term Decoupling		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.
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Module 4 Section C: Inventory		A location used to store inventory. Decisions driving
Term Distribution center		warehouse management include site selection, number of facilities in the system, layout, and methods of receiving, storing, and retrieving goods.
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Module 4 Section C: Inventory		A level of supply chain nodes. For example, a supply chain with two independent factory warehouses and nine wholesale warehouses delivering product to 350 retail stores is a supply chain with three [of these] between the factory and the end customer. One [of
Term Echelon		these] consists of the two independent factory warehouses, one consists of the nine wholesale warehouses, and one consists of the 350 retail stores. Each [of these] adds operating expense, holds inventory, adds to the cycle time, and expects to make a profit. See: disintermediation.
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Module 4 Section C: Inventory			Planning for the phase-out of one product and the
Term End-of-life management			phase-in of a new product to avoid both the excessive inventory of and an out-of-stock situation with the old product before the replacement product is available.
APICS CSCP Learning System	© 2024		
Module 4 Section C: Inventory			A lot-sizing technique in MRP or inventory management that will always cause planned or actual
Term Fixed order quantity			orders to be generated for a predetermined fixed quantity, or multiples thereof, if net requirements for the period exceed [this].
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Module 4 Section C: Inventory			
Term In-transit inventory			Material moving between two or more locations, usually separated geographically; for example, finished goods being shipped from a plant to a distribution center.
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Module 4 Section C: Inventory			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.
Term Inventory			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.
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Module 4 Section C: Inventory Term Inventory accuracy APICS CSCP Learning System	© 2024	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 4 Section C: Inventory		A change made to an inventory record to correct the
Term Inventory adjustment		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.
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Module 4 Section C: Inventory		The activities and techniques of maintaining the
Term Inventory control	@ 2024	desired levels of items, whether raw materials, work in process, or finished products. Syn.: material control.
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Module 4 Section C: Inventory		
Term Inventory management		The branch of business management concerned with planning and controlling inventories.
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Module 4 Section C: Inventory Term Inventory ordering system			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.
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Module 4 Section C: Inventory			The activities and techniques of determining the desired levels of items, whether raw materials, work in
Term Inventory planning			process, or finished products (including order quantities and safety stock levels). Syn.: material planning.
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Module 4 Section C: Inventory			
Term Inventory visibility			The extent to which inventory information is shared within a firm and with supply chain partners.
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Module 4 Section C: Inventory			
Term Landed cost			This cost includes the product cost plus the costs of logistics, such as warehousing, transportation, and handling fees.
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Module 4 Section C: Inventory Term Life cycle analysis		A quantitative forecasting technique based on applying past patterns of demand data covering introduction, growth, maturity, saturation, and decline of similar products to a new product family.
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Module 4 Section C: Inventory		
Term Lot-for-lot (L4L)		A lot-sizing technique that generates planned orders in quantities equal to the net requirements in each period. See: discrete order quantity.
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Module 4 Section C: Inventory		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,
Term Ordering cost		releasing, monitoring, and receiving orders; the physical handling of goods; inspections; and setup costs, as applicable. See: acquisition cost, inventory costs.
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Module 4 Section C: Inventory		1) The actual inventory itself. 2) The determination of
Term Physical inventory		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.
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Module 4 Section C: Inventory Term Safety lead time APICS CSCP Learning System	© 2024		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.
Module 4 Section C: Inventory			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
Term Safety stock			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.
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Module 4 Section C: Inventory		MRP-like time planning logic technique for independer demand items, where gross requirements come from a forecast, not via explosion. Can be used to plan distribution center inventories as well as to plan for service (repair) parts, because MRP logic can readily	
Term Time-phased order point (TPOP)	0 2024		handle items with dependent demand, independent demand, or a combination of both. An approach that uses time periods, thus allowing for lumpy withdrawals instead of average demand. When used in distribution environments, the planned order releases are input to the master schedule dependent demands. See: fixed reorder quantity inventory model.
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Module 4 Section C: Inventory			Facilities used to store inventory. Decisions driving
Term Warehouses (distribution centers)			warehouse management include site selection, number of facilities in the system, layout, and methods of receiving, storing, and retrieving goods.
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Module 4 Section C: Inventory Term Work in process (WIP) APICS CSCP Learning System © 2024	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 4 Section D: Performance and Continuous Improvement	A term referring to the Pareto principle. The principle suggests that most effects come from relatively few
Term 80-20	causes; that is, [a larger] percent of the effects (or sales or costs) come from [a smaller] percent of the possible causes (or items). See: ABC classification.
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Module 4 Section D: Performance and Continuous Improvement	Those costs associated with the formal evaluation and
Term Appraisal costs	audit of quality in the firm. Typical costs include inspection, quality audits, testing, calibration, and checking time.
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Module 4 Section D: Performance and Continuous Improvement	
Term Buffer	In theory of constraints, time or material that supports throughput and/or due date performance.
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Module 4 Section D: Performance and Continuous Improvement	Any element or factor that provents a system from
Term Constraint	 Any element or factor that prevents a system from achieving a higher level of performance with respect to its goal.
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Module 4 Section D: Performance and Continuous Improvement	
Term Continuous improvement (CI)	The act of making incremental, regular improvements and upgrades to a process or product in the search for excellence.
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Module 4 Section D: Performance and Continuous Improvement	A never-ending effort to expose and eliminate root
Term Continuous process improvement (CPI)	causes of problems; small-step improvement as opposed to big-step improvement. Syn.: continuous improvement. See: kaizen.
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Module 4 Section D: Performance and Continuous Improvement	A graphic comparison of process performance data with predetermined computed control limits. The process performance data usually consists of groups of
Term Control chart	 measurements selected in the regular sequence of production that preserve the order. The primary use of [these] is to detect assignable causes of variation in the process as opposed to random variations. [This] is one of the seven tools of quality. Syn.: process control chart.
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Module 4 Section D: Performance and Continuous Improvement Term Cost of poor quality APICS CSCP Learning System	The costs associated with performing a task incorrectly and/or generating unacceptable output. These costs would include the costs of nonconformities, inefficient processes, and lost opportunities. See: quality costs.
Module 4 Section D: Performance and Continuous Improvement	A six sigma improvement process composed of five stages: (1) Determine the nature of the problem. (2) Measure existing performance and commence recording data and facts that offer information about
Term Define, Measure, Analyze, Improve, Control (DMAIC) process	the underlying causes of the problem. (3) Study the information to determine the root causes of the problem. (4) Improve the process by effecting solutions to the problem. (5) Monitor the process until the solutions become ingrained.
Module 4 Section D: Performance and Continuous Improvement	In just-in-time philosophy, an approach to level
Term Heijunka APICS CSCP Learning System © 2024	production throughout the supply chain to match the planned rate of end product sales.
Module 4 Section D: Performance and Continuous Improvement	Reductions of actual quantities of items in stock, in
Term Inventory shrinkage	process, or in transit. The loss may be caused by scrap, theft, deterioration, evaporation, and so forth. Sometimes referred to as shrinkage.
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Module 4 Section D: Performance and Continuous Improvement Term Just in time (JIT) APICS CSCP Learning System	24	A philosophy of manufacturing based on planned elimination of all waste and on continuous improvement of productivity. It encompasses the successful execution of all manufacturing activities required to produce a final product, from design engineering to delivery, and includes all stages of conversion from raw material onward. The primary elements of [this] are to have only the required inventory when needed; to improve quality to zero defects; to reduce lead times by reducing setup times, queue lengths, and lot sizes; to incrementally revise the operations themselves; and to accomplish these activities at minimum cost. In the broad sense, it applies to all forms of manufacturing—job shop, process, and repetitive—and to many service industries as well. Syn.: short-cycle manufacturing, stockless production, zero inventories.
Module 4 Section D: Performance and Continuous Improvement		The Japanese term for improvement; refers to continuing improvement involving everyone—
Term Kaizen		managers and workers. In manufacturing, [this] relates to finding and eliminating waste in machinery, labor, or production methods. See: continuous process improvement.
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Module 4 Section D: Performance and Continuous Improvement		A rapid improvement of a limited process area; for example, a production cell. Part of the improvement team consists of workers in that area. The objectives
Term Kaizen blitz		are to use innovative thinking to eliminate non-value- added work and to immediately implement the changes within a week or less. Ownership of the improvement by the area work team and the development of the team's problem-solving skills are additional benefits. See: kaizen event.
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Module 4 Section D: Performance and Continuous Improvement		A time-boxed set of activities carried out by the cell
Term Kaizen event		team during the week of cell implementation. [It] is an implementation arm of a lean manufacturing program. See: kaizen blitz.
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Module 4 Section D: Performance and Continuous Improvement Term Key performance indicator (KPI) APICS CSCP Learning System	1) A financial or nonfinancial measure that is used to define and assess progress toward specific organizational goals and that typically is tied to an organization's strategy and business stakeholders. Should not be contradictory to other departmental or strategic business unit performance measures. 2) A metric used to measure the overall performance or state of affairs. SCOR level 1 metrics are an example.
Module 4 Section D: Performance and Continuous Improvement	A metric that permits a balanced evaluation and
Term Lean metric	response—quality without sacrificing quantity objectives. The types of metrics are financial, behavioral, and core-process performance.
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Module 4 Section D: Performance and Continuous Improvement	A philosophy of production that emphasizes the minimization of the amount of all the resources (including time) used in the various activities of the enterprise. It involves identifying and eliminating non-value-adding activities in design, production, supply chain management,
Term Lean production APICS CSCP Learning System © 2024	 and dealing with customers. [It also employs] teams of multiskilled workers at all levels of the organization and use highly flexible, increasingly automated machines to produce volumes of products in potentially enormous variety. [It] contains a set of principles and practices to reduce cost through the relentless removal of waste and through the simplification of all manufacturing and support processes. Syn.: lean, lean manufacturing.
Module 4 Section D: Performance and Continuous Improvement	Spreading orders out in time or rescheduling operations so that the amount of work to be done in sequential time periods tends to be distributed evenly
Term Load leveling	and is achievable. Although [this ideally applies to] both material and labor, specific businesses and industries may load to one or the other exclusively (e.g., service industries). Syn.: capacity smoothing, level loading. See: level schedule.
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Module 4 Section D: Performance and Continuous Improvement Term Operational performance measurements	1) In traditional management, performance measurements related to machine, worker, or department efficiency or utilization. These performance measurements are usually poorly correlated with organizational performance. 2) In theory of constraints, performance measurements that link causally to organizational performance measurements. Throughput, inventory, and operating expense are examples. See: global performance measurements, local performance measurements, strategic	
APICS CSCP Learning System © 2024	performance measurements.	
Module 4 Section D: Performance and Continuous Improvement	A bar graph that displays the results of a Pareto	
Term Pareto chart	analysis. It may or may not display the 80-20 variation, but it does show a distinct variation from the few compared to the many.	
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Module 4 Section D: Performance and Continuous Improvement	A concept developed by Vilfredo Pareto, an Italian economist, that states that a small percentage of a group accounts for the largest fraction of its impact or value. In an ABC classification, for example, 20 percent of the inventory items may constitute 80 percent of the inventory value. See: ABC classification, 80-20.	
Term Pareto's law		
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Module 4 Section D: Performance and Continuous Improvement	A diagram of the flow of a production process or	
Term Process map	service process through the production system. Standardized symbols are used to designate processing, flow directions, branching decisions, input/output, and other aspects of the process.	
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Module 4 Section D: Performance and Continuous Improvement		Conformance to requirements or fitness for use.	
Term Quality			
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Module 4 Section D: Performance and Continuous Improvement		The time required for a specific machine, resource, work center, process, or line to convert from the production of the last good piece of item A to the first good piece of item B. Syn.: setup lead time.	
Term Setup time			
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Module 4 Section D: Performance and Continuous Improvement		A methodology that furnishes tools for the improvement of business processes. The intent is to decrease process variation and improve product quality.	
Term Six sigma APICS CSCP Learning System © 2024			
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Module 4 Section D: Performance and Continuous Improvement		The application of statistical techniques to monitor and	
Term Statistical process control (SPC)		adjust an operation. Often used interchangeably with statistical quality control, although statistical quality control [also includes acceptance sampling.]	
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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 plan and at six different distribution centers would represent seven [of these].
Module 4 Section D: Performance and Continuous Improvement	Preventive maintenance plus continuing efforts to adapt, modify, and refine equipment to increase flexibility, reduce material handling, and promote continuous flows. It is operator-oriented maintenance
Term	with the involvement of all qualified employees in all maintenance activities. Syn.: total preventive maintenance.
Module 4 Section D: Performance and Continuous Improvement	A management approach to long-term success through customer satisfaction; based on the participation of all members of an organization in improving processes, goods, services, and the culture in which they work.
Term Total quality management (TQM)	
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Module 4 Section D: Performance and Continuous Improvement	The processes of creating, producing, and delivering a good or service to the market. For a good, [this] encompasses the raw material supplier, the manufacture and assembly of the good, and the distribution network. For a service, [this] consists of suppliers, support personnel and technology, the service "producer," and the distribution channel. May be controlled by a single business or a network of several businesses.
Term Value stream	
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Module 4 Section D: Performance and Continuous Improvement	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
Term Velocity	
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Improvement	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.
Term Waste	
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