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 8 Section A: Optimizing Supply Chain Strategy and Tactics	An extreme change in the supply position upstream in a supply chain generated by a small change in demand downstream in the supply chain. Inventory can quickly move from being backordered to being
Term Bullwhip effect	excess. This is caused by the serial nature of communicating orders up the chain with the inherent transportation delays of moving product down the chain. [This] can be eliminated by synchronizing the supply chain.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	1) A statement of long-range strategy and revenue, cost, and profit objectives usually accompanied by budgets, a projected balance sheet, and a cash flow (source and application of funds) statement. [It] is usually stated in terms of dollars and grouped by product family. [It] is then translated into
Term Business plan	 synchronized tactical functional plans through the production planning process (or the sales and operations planning process). Although frequently stated in different terms (dollars versus units), these tactical plans should agree with each other and with [this concept]. See: long-term planning, strategic plan. 2) A document consisting of the business details (organization, strategy, and financing tactics) prepared by an entrepreneur to plan for a new business.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	A plan for choosing how to compete. Business
Term Business strategy	strategies can be classified into three general categories: (1) least cost, (2) differentiation, and (3) focus.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	1) The capability of a system to perform its expected function. 2) The capability of a worker, machine, work center, plant, or organization to produce output per time period. Capacity required represents the system capability needed to make a given product mix (assuming technology, product specification, etc.). As a planning function, both capacity available and capacity required can
Term Capacity	be measured in the short term (capacity requirements plan), intermediate term (rough-cut capacity plan), and long term (resource requirements plan). Capacity control is the execution through the I/O control report of the short-term plan. Capacity can be classified as budgeted, dedicated, demonstrated, productive, protective, rated, safety, standing, or theoretical. See: capacity available, capacity required. 3) Required mental ability to enter into a contract.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics Term Competitive analysis APICS CSCP Learning System	An analysis of a competitor that includes its strategies, capabilities, prices, and costs.
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	1) The ability of a company to address the needs,
	inquiries, and requests of customers. 2) A measure of the delivery of a product to the customer at the time the customer specified.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	
Term	A method for planning material needs that enables a company to build more closely to actual market requirements.
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	A situation in which a customer purchase initiates real-
	time information flows through the supply chain that consequently cause movement of product through the network.
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Module 8 Section A: Optimizing Supply Chain Strate and Tactics	∋gy	
Term Economic value added (EVA)		In managerial accounting, the net operating profit earned above the cost of capital for a profit center.
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Module 8 Section A: Optimizing Supply Chain Strate and Tactics	∋gy	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 actual hours worked (taking longer means less [of this]), or (3) actual
Term Efficiency		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.
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Module 8 Section A: Optimizing Supply Chain Strate and Tactics	∋gy	
Term Functional product		Mature products that tend to have a low profit margin and a predictable demand.
APICS CSCP Learning System	2024	
Module 8 Section A: Optimizing Supply Chain Strate and Tactics	∋gy	A strategy that focuses on improving worldwide performance through the sales and marketing of common goods and services with minimum product variation by country. Its competitive advantage grows through selecting the best locations for operations in other countries. See: multinational strategy.
Term Global strategy		
APICS CSCP Learning System ©	2024	

Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	A computer application that can find optimal invento
Term Inventory optimization	strategies and policies related to customer service and return on investment over several echelons of a supply chain.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	
Term Mass marketing	The strategy of sending the same message to all potential customers.
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	A strategy in which each country market is self-
Term Multicountry strategy	contained. Customers have unique product expectations that are addressed by local production capabilities.
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	statistics, and computing are adapted and applied to
Term Operations research	 the identification, formulation, solution, validation, implementation, and control of decision-making problems. 2) An academic field of study concerned with the development and application of quantitativ analysis to the solution of problems faced by management in public and private organizations. S management science.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics Term Organizational design APICS CSCP Learning System	The creation of an organizational structure to support the strategic business plans and goals of an enterprise (e.g., for-profit versus not-for-profit companies). Given the mission and business strategy, the organizational structure design provides the framework within which the business operational and management activities will be performed.
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	A product design or supply chain strategy that deliberately delays final differentiation of a product (assembly, production, packaging, tagging, etc.) until the latest possible time in the process. This shifts
Term Postponement	product differentiation closer to the consumer to reduce the anticipatory risk of producing the wrong product. The practice eliminates excess finished goods in the supply chain. This strategy is sometimes referred to as delayed differentiation.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	
Term Product differentiation	A strategy of making a product distinct from the competition on a nonprice basis such as availability, durability, quality, or reliability.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	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 of inventory as demanded by the using aperations
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 8Section A: Optimizing Supply Chain Strategy and TacticsTerm Push systemAPICS CSCP Learning System© 2024	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 8 Section A: Optimizing Supply Chain Strategy and Tactics	Net income for the previous 12 months divided by total
Term Return on assets (ROA)	assets. See: return on owner's equity (ROE).
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	A relative measure of financial performance that
Term Return on investment (ROI)	provides a means for comparing various investments by calculating the profits returned during a specified time period.
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	Managing the outflow of funds in order to buy goods
Term Spend management	and services. The term is intended to encompass such processes as outsourcing, procurement, e- procurement, and supply chain management.
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Module 8 Section A: Optimizing Supply Chain Strateg and Tactics	A plan for how to marshal and determine actions to
Term Strategic plan	support the mission, goals, and objectives of an organization.
APICS CSCP Learning System © 2	24
Module 8 Section A: Optimizing Supply Chain Strateg and Tactics	For an enterprise, identifies how the company will function in its environment. Specifies how to satisfy customers, how to grow the business, how to compete
Term Strategy	in its environment, how to manage the organization and develop capabilities within the business, and how to achieve financial objectives.
APICS CSCP Learning System © 2	24
Module 8 Section A: Optimizing Supply Chain Strateg and Tactics	The process of designing a product to meet a specific
Term Target costing	cost objective. Target costing involves setting the planned selling price and subtracting the desired profit as well as marketing and distribution costs, thus leaving the required manufacturing or target cost.
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Module 8 Section A: Optimizing Supply Chain Strateg and Tactics	
Term Value	The worth of an item, good, or service.
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	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
Term Value added APICS CSCP Learning System © 2024	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
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Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	
Term Value chain	The functions within a company that add value to the goods or services that the organization sells to customers and for which it receives payment.
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	good or service to the market. For a good, [this] encompasses the raw material supplier, the
Term Value stream	service "producer," and the distribution channel. May be controlled by a single business or a network of
APICS CSCP Learning System © 2024	
Module 8 Section A: Optimizing Supply Chain Strategy and Tactics	materials from supplier to customer that includes the
Term Value stream mapping	current process and flow as well as the value-added
APICS CSCP Learning System © 2024	

Module 8 Section A: Optimizing Supply Chain Strategy and Tactics Term Velocity APICS CSCP Learning System	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 8 Section A: Optimizing Supply Chain Strategy and Tactics	The ability to view important information throughout a
Term Visibility	facility or supply chain no matter where in the facility or supply chain the information is located.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A voluntary consensus standard on occupational health and safety management systems. It uses
Term ANSI Z.10	recognized management system principles in order to be compatible with quality and environmental management system standards such as the ISO 9000 and ISO 14000 Series.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	Certification by a recognized body of the facilities, capability, objectivity, competence, and integrity of an
Term Accreditation	agency, service, operational group, or individual to provide the specific service or operation needed. For example, the Registrar Accreditation Board accredits those organizations that register companies to the ISO 9000 Series Standards.
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Module 8 Section B: Sustainability	
Term Certification	Documentation of competency by a supplier or by an organization, such as ISO 9000 certification. See: supplier certification, ISO 9000.
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Module 8 Section B: Sustainability	
Term Conflict minerals	Minerals mined in conditions of armed conflict and human rights abuses, and that are sold or traded by armed groups.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	
Term Environmentally responsible business	A firm that operates in such a way as to minimize detrimental impacts on society. See: green manufacturing, green supply chain.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A collection of manufacturing activities that includes
	design of the product, facility, manufacturing processes, logistics, and supplier relationships that reduce or eliminate environmental waste through innovation and improvements.
APICS CSCP Learning System © 2024	

Module 8 Section B: Sustainability	
Term Environmentally sensitive engineering	Designing with consideration of how a product or its packaging will ultimately be disposed.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A network-based organization that pioneered the
Term Global Reporting Initiative (GRI)	world's most widely used sustainability reporting framework.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	The framework that sets out the principles and
Term Global Reporting Initiative (GRI) Reporting Framework	performance indicators organizations can use to measure and report their human rights, labor, environment, and anticorruption practices and outcomes.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A series of generic environmental management standards, developed by the International Organization
Term ISO 14000 Series Standards	for Standardization, that provide structure and system for managing environmental compliance with legislati and regulatory requirements and affect every aspect a company's environmental operations.
APICS CSCP Learning System © 2024	

Module 8 Section B: Sustainability Term ISO 26000	An international standard adopted by the International Organization for Standardization to assist organizations in contributing to sustainable development beyond legal compliance through a common understanding of social responsibility. [This] is not a management system standard and is not intended or appropriate for certification purposes or regulatory or contractual use.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A set of international standards about quality management and quality assurance developed to help companies effectively document the quality system elements to be implemented to maintain an efficient quality system. The standards, initially published in 1987, are not specific to any
Term ISO 9000 APICS CSCP Learning System © 2024	particular industry, product, or service. The standards were developed by the International Organization for Standardization, known as ISO, a specialized international agency for standardization composed of the national standards bodies of 91 countries. The standards underwent major revision in 2015 and now include ISO 9000:2015 (definitions), ISO 9001:2015 (requirements), and ISO 9004:2015 (guidance).
Module 8 Section B: Sustainability	A set of recommendations about responsible business conduct addressed by governments to multinational
Term Organization for Economic Cooperation and Development (OECD) Guidelines for Multinational Enterprises	enterprises (MNEs) operating in or from adhering countries that encourage and maximize the positive impact MNEs can make to sustainable development and enduring social progress. See: multinational corporation.
APICS CSCP Learning System © 2024	
Module 8 Section B: Sustainability	A widely recognized international standard for
Term SA8000	managing human rights in the workplace. It provides an auditable framework for assuring that social accountability is being stewarded by an organization.
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Module 8 Section B: Sustainability		
Term Sustainability		An organizational focus on activities that provide present benefit without compromising the needs of future generations.
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Module 8 Section C: Technology Trends		
Term 3D printing		The process of layering materials to make products and components using computer data. Syn.: additive manufacturing. See: rapid prototyping.
APICS CSCP Learning System	© 2024	
Module 8 Section C: Technology Trends		The review of typically large sets of business data
Term Analytics		using mathematics, statistics, and computer software to identify meaningful patterns in the data to help in
APICS CSCP Learning System	© 2024	
Module 8 Section C: Technology Trends	Computer programs that can learn and	Computer programs that can learn and reason in a
Term Artificial intelligence (AI)		manner similar to humans. The problem is defined in terms of states and operators to generate a search space that is examined for the best solution.
APICS CSCP Learning System	© 2024	

Module 8 Section C: Technology Trends		A transportation network that automatically routes one or more material handling devices, such as carts or pallet trucks, and positions them at predetermined	
Term Automated guided vehicle system (AG	SVS)	destinations without operator intervention.	
APICS CSCP Learning System	© 2024		
Module 8 Section C: Technology Trends		A continuously growing list of records, called blocks, which are linked and secured using cryptography. Each block typically contains a cryptographic hash of	
Term Blockchain		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.	
APICS CSCP Learning System	© 2024		
Module 8 Section C: Technology Trends			
Term Cloud computing		An emerging way of computing in which data is stored in massive data centers that can be accessed from any computer connected to the internet.	
APICS CSCP Learning System	© 2024		
Module 8 Section C: Technology Trends		An exact virtual replica or model of a real-world	
Term Digital twin		An exact virtual replica or model of a real-world process, product, or service used to digitally simulate, test, model, and monitor it.	
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Module 8 Section C: Technology Trends		
Term Expert system		A type of artificial intelligence computer system that mimics human experts by using rules and heuristics rather than deterministic algorithms.
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Module 8 Section C: Technology Trends		
Term Gap analysis		A tool designed to assess the differences between a service that is offered and customer expectations.
APICS CSCP Learning System	© 2024	
Module 8 Section C: Technology Trends		A form of problem solving in which the results or rules
Term Heuristics	have beer instead of such area	such areas as forecasting, for sizing, or determining
APICS CSCP Learning System	© 2024	
Module 8 Section C: Technology Trends		A model of how the organization operates regarding information. The model considers four factors: (1) organizational functions; (2) communication of coordination requirements; (3) data modeling needs; and (4) management and control structures. [This] should be aligned with and match the architecture of the organization.
Term Information system architecture		
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Module 8 Section C: Technology Trends Term Internet of things (IOT)		An environment in which objects, animals or people are provided with unique identifiers and the ability to transfer data over a network without requiring human- to-human or human-to-computer interaction. This allows objects to be sensed and controlled remotely across existing network infrastructure, creating opportunities for more direct integration between the physical world and computer-based systems.
Module 8 Section C: Technology Trends	 piece as more units of an item are made. A planning technique, [this] is particularly useful in project-orien 	A curve reflecting the rate of improvement in time per piece as more units of an item are made. A planning technique, [this] is particularly useful in project-oriented
Term Learning curve	© 2024	industries in which new products are frequently phased in. The basis for the [this] calculation is that workers will be able to produce the product more quickly after they get used to making it. Syn.: experience curve, manufacturing progress curve.
Module 8 Section C: Technology Trends		Artificial intelligence software that is capable of
Term Machine learning	analysis, self-training, and observation	analysis, self-training, and observation to improve its own performance. It is often used to assist with
APICS CSCP Learning System	© 2024	
Module 8 Section C: Technology Trends		The use of skills and knowledge in coordinating the organizing, planning, scheduling, directing, controlling,
Term Project management		monitoring, and evaluating of prescribed activities to ensure that the stated objectives of a project, manufactured good, or service are achieved. See: project.
APICS CSCP Learning System	© 2024	

APICS CSCP Learning System Module 8 Section C: Technology Trends Term Wearable	© 2024	A form of technology worn on the body that allows hands-free work by being voice and/or gesture activated. Wearables can be used for a wide variety of activities within a supply chain, including tracking activity levels, distances moved to execute transactions, and even the exact location of workers in the warebeuge. Sum the exact location of workers in
Module 8 Section C: Technology Trends Term Supply chain control towers		complete view of data across the end-to-end supply chain. The system allows the supplier to see the requirements and inventory levels at the customer's site, enhances the ability to get accurate information about supply location and availability, and highlights any potential excess inventory. Similarly, it helps the
Term Sensors APICS CSCP Learning System	© 2024	Devices that can monitor differences in conditions to control equipment on a dynamic basis.
Module 8 Section C: Technology Trends		
Term Robotic process automation (RPA) APICS CSCP Learning System	© 2024	The use of software robots (also referred to as "bots") to emulate human execution of repetitive, pre-defined business processes.
Module 8 Section C: Technology Trends		The use of cofficient reliefs (also referred to co "hote")

Module 8 Section C: Technology Trends			
Term Work breakdown structure		In project management, a hierarchical description of a project in which each lower level is more detailed. See: project summary work breakdown structure.	
APICS CSCP Learning System	© 2024		
Module 8 Section C: Technology Trends		Using holographic imagery alongside the physical environment to provide additional information or	
Term augmented reality (AR)		guidance about how to carry out a task. For example, warehouse employees can wear AR-enabled smart glasses to see information about the locations of items as well as instructions about what items and quantities to pick when pulling material to fill an order.	