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.

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Module 2 Section A: Select Supply Chain Transformation Drivers	Techniques that deal with the analysis and planning of logistics and manufacturing during short, intermediate, and long-term time periods. Describes any computer program that uses advanced mathematical algorithms or logic to perform optimization or simulation on finite
Term Advanced planning and scheduling (APS)	capacity scheduling, sourcing, capital planning, resource planning, forecasting, demand management, and others. These techniques simultaneously consider a range of constraints and business rules to provide real-time planning and scheduling, decision support, available-to-promise, and capable-to-promise capabilities.
Module 2 Section A: Select Supply Chain Transformation Drivers	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.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Big data	Collecting, storing, and processing massive amounts of data for the purpose of converting it into useful information.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A continuously growing list of records, called blocks, which are linked and secured using cryptography.
Term Blockchain	Each block typically contains a cryptographic hash of the previous block, a timestamp, and transaction data. The data in any given block cannot be altered retroactively without the alteration of all subsequent blocks, inherently making it resistant to modification.
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Module 2 Section A: Select Supply Chain Transformation Drivers	An emerging way of computing in which data is stored
Term Cloud computing	in massive data centers that can be accessed from any computer connected to the internet.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Competitive analysis	An analysis of a competitor that includes its strategies, capabilities, prices, and costs.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Data mining	The process of studying data to search for previously unknown relationships. This knowledge is then applied to achieving specific business goals.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A computer system designed to assist managers in
Term Decision support system (DSS)	selecting and evaluating courses of action by providing a logical (usually quantitative) analysis of the relevant factors.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Deflation	An ongoing decrease in the overall level of prices.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A reference model for supply chain professionals to guide the development of digital supply networks. The
Term Digital Capabilities Model (DCM) for Supply Networks	model is designed in a relational manner to help envision and then build the digitally enabled capabilities required to transform linear supply chains into a set of dynamic networks.
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Module 2 Section A: Select Supply Chain Transformation Drivers	Framework for organizing, defining, and standardizing the business processes necessary to effectively plan and control an organization so the organization can
Term Enterprise resource planning (ERP)	use its internal knowledge to seek external advantages. An ERP system provides extensive databanks of information including master file records, repositories of cost and sales, financial details, analysis of product and customer hierarchies, and historic and current transactional data.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A process used to expose an organization's potential
Term Environmental scanning	strengths, weaknesses, opportunities, and threats. Many experts emphasize opportunities and threats because the tool is primarily external.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A concept of organizational and technological changes along with value chain integrations and new business
Term Industry 4.0	needs and mass customization requirements and enabled by innovation technologies, connectivity, and information technology integration.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Inflation	An ongoing rise in the overall level of prices.
APICS CTSC Learning System © 2024	
Module 2 Section A: Select Supply Chain Transformation Drivers	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-
Term Internet of things (IOT)	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.
APICS CTSC Learning System © 2024	
Module 2 Section A: Select Supply Chain Transformation Drivers	Artificial intelligence software that is capable of
Term Machine learning	analysis, self-training, and observation to improve its own performance. It is often used to assist with planning and forecasting.
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Module 2 Section A: Select Supply Chain Transformation Drivers	The environment external to a business including
Term Macro environment	technological, economic, natural, and regulatory forces that marketing efforts cannot control.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Macroeconomics	The analysis of the collective behavior of economic actors across an entire economy.
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Module 2 Section A: Select Supply Chain Transformation Drivers	Programs and systems that participate in shop floor control, including programmed logic controllers and process control computers for direct and supervisory control of manufacturing equipment, process information systems that gather historical performance information and then generate reports, graphical
Term Manufacturing execution systems (MES)	on in the plant currently and what occurred during a very short history into the past. Quality control information is also gathered, and a laboratory information management system may be part of this configuration to tie process conditions to the quality data that is generated. Cause-and-effect relationships can thereby be determined. The quality data at times affects the control parameters that are used to meet product specifications either dynamically or offline.
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Module 2 Section A: Select Supply Chain Transformation Drivers	An enterprise's essential core data consisting of basic
Term Master data	information needed across the enterprise to conduct business. Describes the core entities of the enterprise, including products, customers, suppliers, sites, and charts of accounts.
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Module 2 Section A: Select Supply Chain Transformation Drivers	An analysis of the political, economic, social/ethical, technological, legislative, and environmental factors in the external environment of an organization that can
Term PESTLE analysis	affect performance. This analysis often is used in conjunction with a SWOT (strengths, weaknesses, opportunities, threats) analysis. It aids organizations in determining the environment in which they operate.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Portfolio	grouped to facilitate management. They are not necessarily interdependent.
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Module 2 Section A: Select Supply Chain Transformation Drivers	The value of the tolerance specified for the
Term Process capability index	characteristic divided by the process capability. There are several types, including the widely used Cpk and Cp.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Program	In project management, a coordinated set of related projects, usually including ongoing work.
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Module 2 Section A: Select Supply Chain Transformation Drivers	An onderwor with a specific objective to be met within
Term Project	predetermined time and dollar limitations and that has been assigned for definition or execution.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A methodology designed to ensure that all the major
Term Quality function deployment (QFD)	subsequently met or exceeded through the resulting product design process and the design and operation of the supporting production management system.
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Module 2 Section A: Select Supply Chain Transformation Drivers	The ability to sense demand exceptions; target revenue opportunities; and resolve supply challenges
Term Responsive demand-supply matching (RDSM)	through planning of constrained resources (material, labor, and equipment capacity) and the allocation of supply across the network to best meet demand aligned with the business strategy.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A self-executing contract with the terms of an agreement between a buyer and a seller written into lines of blockchain code. These contracts use technology to automatically ensure that contract terms are mot. If a new action, transaction, or other
Term Smart contracts	information is added to the blockchain—or decentralized digital ledger of the agreement—that does not match the terms of the agreement already included in the blockchain, the information will be rejected, thus ensuring that all parties adhere to the contract.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A highly responsive, adaptive, digitized, and connected function integrated into the digital supply network that
Term Smart operations	synchronizes all aspects of production and operations. This function drives significant performance and safety improvements in production, particularly in regard to quality and maintenance, repair, and overhaul.
APICS CTSC Learning System © 2024	
Module 2 Section A: Select Supply Chain Transformation Drivers	A centralized hub that provides an integrated, complete view of data across the end-to-end supply chain. The system allows the supplier to see the
Term Supply chain control towers	site, enhances the ability to get accurate information about supply location and availability, and highlights any potential excess inventory. Similarly, it helps the customer easily identify supply and demand variations and take necessary actions to return excess inventory.
APICS CTSC Learning System © 2024	
Module 2 Section A: Select Supply Chain Transformation Drivers	A term associated with supply chain management software applications, in which users have the ability to flag the occurrence of certain supply chain events to trigger some form of alert or action within another
Term Supply chain event management (SCEM)	supply chain application. SCEM can be deployed to monitor supply chain business processes such as planning, transportation, logistics, or procurement. It can also be applied to supply chain business intelligence applications to alert users to any unplanned or unexpected events.
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Module 2 Section A: Select Supply Chain Transformation Drivers	
Term Voice of the customer (VOC)	Actual customer descriptions in words for the functions and features customers desire for goods and services.
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Module 2 Section A: Select Supply Chain Transformation Drivers	A computer application system designed to manage
Term Warehouse management system (WMS)	and optimize workflows and the storage of goods within a warehouse. It often interfaces with automated data capture and enterprise resource planning systems.
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Module 2 Section B: Assess Supply Chain Current State	
Term Gap	The difference between the actual performance level and the expected performance level.
APICS CTSC Learning System © 2024	
Module 2 Section B: Assess Supply Chain Current State	
Term Gap analysis	A tool designed to assess the differences between a service that is offered and customer expectations.
APICS CTSC Learning System © 2024	
Module 2 Section C: Conceptualize the Future-State Supply Chain Operating Model	A technique that teams use to generate ideas about a
Term Brainstorming	to think creatively and write down as many ideas as possible. The ideas are not discussed or reviewed until after the session.
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Module 2 Section C: Conceptualize the Future-Sta Supply Chain Operating Model	ate	The process of evaluating alternate strategies by
Term What-if analysis		answering the consequences of changes to forecasts, manufacturing plans, inventory levels, and so forth.
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Module 2 Section D: Identify Initiatives to Address G	aps	Dependencies that are based on best practices; could
Term Discretionary dependencies		project but at higher risk because the best practice is being overridden.
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Module 2 Section D: Identify Initiatives to Address G	iaps	
Term Mandatory dependencies		Dependencies that are inherent in the nature of the activities or are regulatory or contractual requirements.
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Module 2 Section F: Develop and Iterate Prelimina Transformation Business Cases	ary	
Term Break-even analysis		A study of the number of units or amount of time required to recoup an investment.
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases		The level of production or the volume of sales at which		
Term Break-even point	operations are neither profitable nor unprofitable; the intersection of the total revenue and total cost curves.	operations are neither profitable nor unprofitable; the intersection of the total revenue and total cost curves.		
APICS CTSC Learning System © 2024				
Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases				
Term Contribution margin	An amount equal to the difference between sales revenue and variable costs.	An amount equal to the difference between sales revenue and variable costs.		
APICS CTSC Learning System © 2024				
Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases				
Term Cost-volume-profit analysis			The out	The study of how profits change with various levels of output and selling price.
APICS CTSC Learning System © 2024				
Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases				
Term Current ratio		Current assets divided by current liabilities.		
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	A method of investment analysis in which future cash flows are converted or discounted to their value at the
Term Discounted cash flow	present time. The net present value of an item is estimated to be the sum of all discounted future cash flows.
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	
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 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	
Term Net working capital	The current assets of a firm minus its current liabilities.
APICS CTSC Learning System © 2024	
Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	The period of time required for the streem of each flour
Term Payback period	resulting from a project to equal the project's initial investment.
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	The net operating income that an investment center earns above the minimum required return on its operating assets.
Term Residual income	
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	A relative measure of financial performance that provides a means for comparing various investments by calculating the profits returned during a specified time period.
Term Return on investment (ROI)	
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Module 2 Section F: Develop and Iterate Preliminary Transformation Business Cases	The cumulative effect of elapsed time on the money value of an event, based on the earning power of equivalent invested funds.
Term Time value of money	
APICS CTSC Learning System © 2024	
Module 2 Section G: Perform Post-Approval Tasks	A tool for analyzing process dispersion. It is also referred to as the Ishikawa diagram (because Kaoru Ishikawa developed it) and the fishbone diagram (because the complete diagram resembles a fish skeleton). The diagram illustrates the main causes and sub-causes leading to an effect (symptom).
Term Cause-and-effect diagram	
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Module 2 Section G: Perform Post-Approval Tasks A technique to organize the elements of a problem or situation to acid in the determination of the causes of the problem or situation. The analysis relates the effect of the environment to the several possible sources of the problem. APICS CTSC Learning System © 2024 Module 2 Section G: Perform Post-Approval Tasks A common practice in total quality management that involves asking "why" five times when confronted with a problem. System PICS CTSC Learning System © 2024 Module 2 A common practice in total quality management that involves asking "why" five times when confronted with a problem. System PICS CTSC Learning System © 2024 Module 2 Image: the several possible sources of the problem is identified. PICS CTSC Learning System © 2024 Module 2 Image: the ultimate cause of the problem is identified. Section G: Perform Post-Approval Tasks Image: the relationship between planned performance over time. Used to right and another to copresent table to adapt and the capacity, or (2) monitoring planned performance over time. Used to right and the capacity, or (2) monitoring planned performance over time. Used to right and the capacity, or (2) monitoring planned performance over time. Used to right and the actual progress of the job against the schedule and monter parallel line the represents the actual progress of the job against the schedule in time. APICS CTSC Learning System ©		
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APICS CTSC Learning System © 2024 Module 2 Section G: Perform Post-Approval Tasks Term Five whys APICS CTSC Learning System © 2024 Module 2 A common practice in total quality management that involves asking 'why' five times when confronted with a problem. By the time the answer to the fifth why is the times when confronted with a problem. By the time the answer to the problem is identified. Module 2 Section G: Perform Post-Approval Tasks Term Module 2 2024 A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team APICS CTSC Learning System 0 2024 A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team Module 2	Term Fishbone analysis	
Module 2 Section G: Perform Post-Approval Tasks A common practice in total quality management that involves asking "why" five times when confronted with a problem. By the time the answer to the fifth why is found, the ultimate cause of the problem is identified. APICS CTSC Learning System © 2024 Module 2 The earliest and best-known type of planning and control chart. It is especially designed to show graphically the relationship between planned performance and actual performance over time. Used for (1) machine loading, in which one horizontal line is used to represent capacity and another to represent capacity on another to represent the production schedule and another parallel line represents the production schedule and another parallel line represents the calcule in time. APICS CTSC Learning System © 2024 Module 2 Section G: Perform Post-Approval Tasks APICS CTSC Learning System © 2024 Module 2 Section G: Perform Post-Approval Tasks Aptics CTSC Learning System © 2024 A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team members are asked to sliently come up with as many lideas as possible and write ther down. Each member ideas are recorded, they are discussed and prioritized by the group. APICS CTSC Learning System © 2024	APICS CTSC Learning System © 2024	
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APICS CTSC Learning System © 2024 Module 2 The earliest and best-known type of planning and control chart. It is especially designed to show graphically the relationship between planned performance and actual performance over time. Used for (1) machine loading, in which one horizontal line is used to represent capacity and another to represent load against that capacity, or (2) monitoring job progress, in which one horizontal line represents the production schedule and another to represent the actual progress of the job against the schedule in time. APICS CTSC Learning System © 2024 Module 2 A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team members are asked to silently come up with as many ideas as possible and write them down. Each member is then asked to silently come up with as many ideas are recorded, they are discussed and prioritized by the group. APICS CTSC Learning System © 2024	Term Five whys	
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Arecs crise Learning System © 2024 Module 2 Section G: Perform Post-Approval Tasks A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team members are asked to silently come up with as many ideas as possible and write them down. Each member is then asked to share one idea, which is recorded. After all the ideas are recorded, they are discussed and prioritized by the group. APICS CTSC Learning System © 2024	Term Gantt chart	
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Term Nominal group technique ABICS CTSC Learning System	Module 2 Section G: Perform Post-Approval Tasks	A technique, similar to brainstorming, used by teams to generate ideas about a particular subject. Team members are asked to silently come up with as many ideas as possible and write them down. Each member is then asked to share one idea, which is recorded. After all the ideas are recorded, they are discussed and prioritized by the group.
ABICS CTSC Loorning System	Term Nominal group technique	
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