

Module7: Section A: Warehouse Strategy and Tactics	Module7: Section A: Warehouse Strategy and Tactics
Term warehousing	Term warehouse
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Module7: Section A: Warehouse Strategy and Tactics	Module7: Section A: Warehouse Strategy and Tactics
Term distribution center (DC)	Term spot stock warehousing
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Module7: Section A: Warehouse Strategy and Tactics	Module7: Section A: Warehouse Strategy and Tactics
Term throughput	Term private warehouse
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Module7: Section A: Warehouse Strategy and Tactics	Module7: Section A: Warehouse Strategy and Tactics
Term public warehouse	Term bonded warehouse
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<p>Definition</p> <p>A place to receive, store, and ship materials.</p>	<p>Definition</p> <p>The activities related to receiving, storing, and shipping materials to and from production or distribution locations.</p>
<p>Definition</p> <p>Positioning seasonal items in proximity to the market. When the season ends, these items are either disposed of or relocated to a more centralized location.</p>	<p>Definition</p> <p>Typically a finished goods warehouse designed for demand-driven rapid distribution to retailers (retail distribution centers), wholesalers, or direct shipments to customers (order fulfillment centers). Cross-docking warehouses are another type of distribution center. See: cross-docking.</p>
<p>Definition</p> <p>A company-owned warehouse.</p>	<p>Definition</p> <p>The rate at which the system generates "goal units." Because [this] is a rate, it is always expressed for a given time period-such as per month, week, day, or even minute. If the goal units are money, [this] is an amount of money per time period. In that case, [it] is calculated as revenues received minus totally variable costs divided by units of the chosen time period.</p>
<p>Definition</p> <p>Buildings or parts of buildings designated by the US Secretary of the Treasury for storing imported merchandise, operated under US Customs supervision.</p>	<p>Definition</p> <p>The warehouse space that is rented or leased by an independent business providing a variety of services for a fee or on a contract basis. These services can include product inspection, product rating, and repackaging. These facilities are typically located near primary roads, railways, or inland waterways to facilitate rapid receiving and shipping of products. Syn: duty paid warehouse.</p>

<p>Module7: Section A: Warehouse Strategy and Tactics</p>	<p>Module7: Section A: Warehouse Strategy and Tactics</p>
<p>Term consolidation</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term break-bulk</p> <p>APICS CLTD Learning System © 2023</p>
<p>Module7: Section A: Warehouse Strategy and Tactics</p>	<p>Module7: Section A: Warehouse Strategy and Tactics</p>
<p>Term cross-docking</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term cross-docking warehouse</p> <p>APICS CLTD Learning System © 2023</p>
<p>Module7: Section A: Warehouse Strategy and Tactics</p> <p>Term automated storage/retrieval system (AS/RS)</p> <p>APICS CLTD Learning System © 2023</p>	

Definition

1) Dividing truckloads, railcars, or containers of homogeneous items into smaller, more appropriate quantities for use. 2) A distribution center that specializes in [these types of] activities. 3) Unitized cargo in bales, boxes, or crates that is placed directly in a ship's holds rather than in containers.

Definition

The grouping of shipments to obtain reduced costs or improved utilization of the transportation function. Consolidation can occur by market area grouping, grouping according to scheduled deliveries, or using third-party pooling services such as public warehouses and freight forwarders. Syn: freight consolidation. See: milk run.

Definition

A warehouse or portion of a warehouse used for cross-docking. See: cross-docking.

Definition

The concept of packing products on incoming shipments so they can be easily sorted at intermediate warehouses or for outgoing shipments based on final destination. The items are carried from the incoming vehicle docking point to the outgoing vehicle docking point without being stored in inventory at the warehouse. [It] reduces inventory investment and storage space requirements. Syn: direct loading.

Definition

A high-density rack inventory storage system that uses vehicles to automatically load and unload the racks.

Module7: Section B: Warehouse Processes	Module7: Section B: Warehouse Processes
Term warehouse receiving	Term slip sheet
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Module7: Section B: Warehouse Processes	Module7: Section B: Warehouse Processes
Term warehouse storage	Term first expiry first out (FEFO)
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Module7: Section B: Warehouse Processes	Module7: Section B: Warehouse Processes
Term part-to-picker system	Term picker-to-part system
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Module7: Section B: Warehouse Processes	Module7: Section B: Warehouse Processes
Term picking list	Term sorting
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Definition

Thin sheets of fiberboard or plastic on which product is stacked, used as an alternative to wood pallets because they take up little space in warehouses or shipping containers.

Definition

A key process in warehouse operation that ensures the correct product has been received, in the right quantity, in the right condition, and at the right time.

Definition

A picking methodology assuring that the usage shelf life of items is optimized. Years ago, first in, first out (FIFO) was satisfactory as the shelf-life days for items often didn't vary and FIFO often coincided with the expiry dates. However, re-testing is frequently done to extend shelf-life dates on some lots or batches, while other lots may have typical shelf-life dates shortened because of quality or processes. Thus, FEFO was introduced by software vendors to provide this picking methodology for use with shelf-life controlled items.

Definition

Using a building or other structure as a planned space for storing goods and materials.

Definition

A materials handling approach for order picking in which the picker goes to the product location (e.g., forklifts, order picking trucks).

Definition

A materials handling approach for order picking where the pick location is brought to the order picker (e.g., carousels).

Definition

The function of physically separating a homogeneous subgroup from a heterogeneous population of items.

Definition

A document that lists the material to be picked for manufacturing or shipping orders. Syn: disbursement list, material list, stores issue order, stores requisition.

Module7: Section B: Warehouse Processes	Module7: Section B: Warehouse Processes
<p data-bbox="380 321 574 407">Term replenishment</p> <p data-bbox="147 506 805 533">APICS CLTD Learning System © 2023</p>	<p data-bbox="1086 321 1203 407">Term unit load</p> <p data-bbox="816 506 1474 533">APICS CLTD Learning System © 2023</p>

Definition

A shipping unit made up of a number of items; bulky material arranged or constrained so the mass can be picked up or moved as a single unit. Reduces material handling costs. Often shrink-packed on a pallet before shipment.

Definition

Relocating material from a bulk storage area to an order pick storage area and documenting this relocation.

Module7: Section C: Warehouse Layout	Module7: Section C: Warehouse Layout
Term cube utilization	Term honeycombing
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Module7: Section C: Warehouse Layout	Module7: Section C: Warehouse Layout
Term capacity	Term rated capacity
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Module7: Section C: Warehouse Layout	Module7: Section C: Warehouse Layout
Term utilization	Term efficiency
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Module7: Section C: Warehouse Layout	Module7: Section C: Warehouse Layout
Term standard time	Term standard hours
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Definition

The practice of moving, in an orderly fashion, a pallet of merchandise to an area where the space is not exhausted, resulting in a vacant space not usable for the storage of other items. This is one of the hidden costs of warehousing.

Definition

In warehousing and transportation, a measurement of the utilization of the total storage capacity of a vehicle storage bay, container, type of warehouse equipment, or entire warehouse. The intent is to minimize unused horizontal or vertical space.

Definition

The expected output capability of a resource or system. Capacity is traditionally calculated from such data as planned hours, efficiency, and utilization. [This] is equal to hours available \times efficiency \times utilization. Syn: calculated capacity, effective capacity, nominal capacity, standing capacity.

Definition

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 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.

Definition

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 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 $780 \div 8 = 97.5$ percent. (2) The work is measured in hours and took 8.21 hours to produce 8 standard hours; [this] is $8 \div 8.21 = 97.5$ percent. (3) The work is measured in dollars and produces \$780 with a standard of \$800; [this] is $780 \div 800 = 97.5$ percent.

Definition

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 a percentage between 0 percent and 100 percent that is equal 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.

Definition

Syn: standard time.

Definition

The length of time that should be required to (1) set up a given machine or operation and (2) run one batch or one or more parts, assemblies, or end products through that operation. Used in determining machine requirements and labor requirements. Assumes an average worker who follows prescribed methods, and allows time for personal rest to overcome fatigue and unavoidable delays. Also frequently used as a basis for incentive pay systems and as a basis of allocating overhead in cost accounting systems. Syn: standard hours. See: standard.

Module7: Section C: Warehouse Layout**Term**

task interleaving

Definition

An attempt at reducing/eliminating deadheading (i.e., driving an empty material-handling vehicle). A warehouse management system directs a material-carrying vehicle to put away materials as it goes to pick up other materials.

Module7: Section D: Materials Handling and Warehouse Automation	Module7: Section D: Materials Handling and Warehouse Automation
Term materials handling	Term conveyor
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Module7: Section D: Materials Handling and Warehouse Automation	Module7: Section D: Materials Handling and Warehouse Automation
Term pick-to-light	Term pick-to-voice system
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Module7: Section D: Materials Handling and Warehouse Automation	Module7: Section D: Materials Handling and Warehouse Automation
Term automated guided vehicle system (AGVS)	Term put-to-light
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Module7: Section D: Materials Handling and Warehouse Automation	Module7: Section D: Materials Handling and Warehouse Automation
Term fixed-location storage	Term random-location storage
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Definition

A device following a fixed route that has the capability of moving material between points in a facility. This device commonly is used when there is a high volume of flow along the route.

Definition

Movement and storage of goods inside the distribution center. This represents a capital cost and is balanced against the operating costs of the facility.

Definition

A method of performing order-picking activities in a warehouse or distribution center using verbal commands. Syn: voice-based picking.

Definition

A pick system that uses software to light up displays at each pick location and determines how much needs to be picked. The pickers use this as their requirement to pull for that particular order to set of orders.

Definition

A process that uses lights to ensure materials are placed in the correct locations. Also used to ensure that picked items are placed correctly.

Definition

A transportation network that automatically routes one or more material handling devices, such as carts or pallet trucks, and positions them at predetermined destinations without operator intervention.

Definition

A storage technique in which parts are placed in any space that is empty when they arrive at the storeroom. Although this random method requires the use of a locator file to identify part locations, it often requires less storage space than a fixed-location storage method. Syn: floating inventory location system, floating storage location. See: fixed-location storage.

Definition

A method of storage in which a relatively permanent location is assigned for the storage of each item in a storeroom or warehouse. Although more space is needed to store parts than in a random-location storage system, fixed locations become familiar, and therefore a locator file may not be needed. See: random-location storage.

<p>Module7: Section D: Materials Handling and Warehouse Automation</p>	<p>Module7: Section D: Materials Handling and Warehouse Automation</p>
<p>Term</p> <p>Customs-Trade Partnership Against Terrorism (C-TPAT)</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term</p> <p>warehouse automation</p> <p>APICS CLTD Learning System © 2023</p>
<p>Module7: Section D: Materials Handling and Warehouse Automation</p>	<p>Module7: Section D: Materials Handling and Warehouse Automation</p>
<p>Term</p> <p>warehouse management system (WMS)</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term</p> <p>software-as-a-service (SaaS)</p> <p>APICS CLTD Learning System © 2023</p>
<p>Module7: Section D: Materials Handling and Warehouse Automation</p> <p>Term</p> <p>yard management system (YMS)</p> <p>APICS CLTD Learning System © 2023</p>	

Definition

The utilization of mechanical or electronic devices to complete tasks related to storing, retrieving, and moving inventory as a substitute for labor resources. Used for cost savings, added security, and to keep human workers out of sensitive environments.

Definition

A joint government-business endeavor for imports (not exports) to increase the security of supply chains and US borders. Initiated by US Customs, [this] involves voluntary cooperation of supply chain participants such as importers, carriers, brokers, warehouse operators, and manufacturers. Participants audit their logistical system security and answer a security questionnaire in exchange for a likely (but not guaranteed) faster customs clearing process and fewer inspections.

Definition

A software licensing and distribution model that provides access to applications via the internet on a subscription basis. A service provider hosts the application at its data center and customers access it through a web browser. Often referred to as "on-demand" software and used by companies to avoid purchasing, implementing and maintenance costs.

Definition

A computer application system designed to manage and optimize workflows and the storage of goods within a warehouse. Often interfaces with automated data capture and enterprise resources planning systems.

Definition

A system that organizes and directs the traffic of all vehicles in the parking yards located at various industrial buildings like warehouses, distribution centers, and manufacturing plants.

Module7: Section E: Packaging	Module7: Section E: Packaging
Term packaging	Term dunnage
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Module7: Section E: Packaging	Module7: Section E: Packaging
Term automatic identification and data capture (AIDC)	Term automatic identification system (AIS)
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Module7: Section E: Packaging	Module7: Section E: Packaging
Term batch processing	Term radio frequency identification (RFID)
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Module7: Section E: Packaging	Module7: Section E: Packaging
Term electronic product codes (EPCs)	Term active tag
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Definition

The packing material used to protect a product from damage during transport. Some industries use the term to refer specifically to returnable packaging only.

Definition

Materials surrounding an item to protect it from damage during transportation. The type of packaging influences the danger of such damage.

Definition

A system that can use various means, including bar code scanning and radio frequencies, to sense and load data in a computer.

Definition

Technologies that collect data about objects and then sends the data to a computer without human intervention. Examples include radio frequency wireless devices and terminals, bar code scanners, and smart cards.

Definition

A system using electronic tags to store data about items. Accessing or retrieving this data is accomplished through a specific radio frequency and does not require close proximity or line-of-sight access. See: active tag, passive tag, semi-passive tag.

Definition

1) A manufacturing technique in which parts are accumulated and processed together in a lot. 2) A computer technique in which transactions are accumulated and processed together or in a lot. Syn: batch production.

Definition

A radio frequency identification tag that broadcasts information and contains its own power source. See: radio frequency identification (RFID).

Definition

Codes that are used with RFID tags to carry information on the product that will support warranty programs.

<p>Module7: Section E: Packaging</p>	<p>Module7: Section E: Packaging</p>
<p>Term passive tag</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term semipassive tag</p> <p>APICS CLTD Learning System © 2023</p>
<p>Module7: Section E: Packaging</p>	<p>Module7: Section E: Packaging</p>
<p>Term unitization</p> <p>APICS CLTD Learning System © 2023</p>	<p>Term pallet</p> <p>APICS CLTD Learning System © 2023</p>

<p style="text-align: center;">Definition</p> <p>An RFID tag that sends out data, is self-powered, and widens its range by harnessing power from the reader. See: radio frequency identification (RFID).</p>	<p style="text-align: center;">Definition</p> <p>A RFID tag that does not send out data and is not self-powered. See: radio frequency identification (RFID) tag.</p>
<p style="text-align: center;">Definition</p> <p>A platform designed to be loaded with packages and moved by a forklift.</p>	<p style="text-align: center;">Definition</p> <p>In warehousing, the consolidation of several units into larger units for fewer handlings.</p>