

Module 4

Section E: Incorporate Materials Handling and Warehouse Automation

Term

Automated guided vehicle system (AGVS)

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Conveyor

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Customs-Trade Partnership Against Terrorism (C-TPAT)

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Materials handling

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Part-to-picker system

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Pick-to-light

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Pick-to-voice system

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Picker-to-part system

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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.

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.

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

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.

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.

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

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

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

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Put-to-light

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Sorting

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Warehouse automation

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

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

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.