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 C: Material Requirements Planning	An output of a system that identifies the need for, and the type of action to be taken to correct, a current or potential problem. Examples of [this] in an MRP system include release order, reschedule in, reschedule out, and cancel. Syn.: exception message, action report.
<b>Term</b> Action message	
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Module 4 Section C: Material Requirements Planning	1) The classification of resources or item quantities that have been assigned to specific orders but have not yet
<b>Term</b> Allocation	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.
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Module 4 Section C: Material Requirements Planning	1) A listing of all the subassemblies, intermediates, parts, and raw materials that go into a parent assembly, showing the quantity of each required to make an assembly. It is used in conjunction with the master production schedule to determine
<b>Term</b> Bill of material (BOM)	orders must be released. A variety of display formats [exist] for [this], including the single-level [], indented [], modular (planning) [], transient [], matrix [], and costed[]. 2) A list of all the materials needed by a contract manufacturer to make one production run of a product's piece parts/components for its customers. [It] may also be called the formula, recipe, or ingredients list in certain process industries.
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<b>Module 4</b> Section C: Material Requirements Planning	The process of determining component identities, quantities per assembly, and other parent-component relationship data for a parent item. Explosion may be single level, indented, or summarized.
<b>Term</b> Bill-of-material explosion	
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Module 4 Section C: Material Requirements Planning Term Explode	To perform a bill-of-material explosion.
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<b>Module 4</b> Section C: Material Requirements Planning	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
<b>Term</b> Firm planned order (FPO)	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.
<b>Module 4</b> Section C: Material Requirements Planning	
<b>Term</b> Gross requirement	The total of independent and dependent demand for a component before the netting of on-hand inventory and scheduled receipts.
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Module 4 Section C: Material Requirements Planning	A form of multilevel bill of material. It exhibits the highest-level parents closest to the left margin, and all the components going into these parents are shown
<b>Term</b> Indented bill of material	indented toward the right. All subsequent levels of components are indented farther to the right. If a component is used in more than one parent within a given product structure, it will appear more than once, under every subassembly in which it is used.
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Module 4   Section C: Material Requirements Planning   Term   Item record   APICS CPIM Learning System	The "master" record for an item. Typically, it contains identifying and descriptive data and control values (lead times, lot sizes, etc.) and may contain data on inventory status, requirements, planned orders, and costs. Item records are linked by bill-of-material records (or product structure records), thus defining the bill of material. Syn.: item master record, part master record, part record.
<b>Module 4</b> Section C: Material Requirements Planning	A technique used in MRP where a planned order
Term Lead-time offset	order in an earlier time period based on the lead time for the item. Syn.: component lead-time offset, offsetting.
AFICS CFINI Leanning System © 2023	
<b>Module 4</b> Section C: Material Requirements Planning	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
<b>Term</b> Material requirements planning (MRP)	[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 C: Material Requirements Planning	A display of all the components directly or indirectly used in a parent, together with the quantity required of 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.
<b>Term</b> Multilevel bill of material	
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Module 4 Section C: Material Requirements Planning	[In MRP and for a part or an assembly, these] are derived as a result of applying gross requirements and allocations against inventory on hand, scheduled receipts, and safety stock. After being lot-sized and offset for lead time, net requirements become planned orders.
<b>Term</b> Net requirement	
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Module 4 Section C: Material Requirements Planning	The quantity shown in the inventory records as being physically in stock.
<b>Term</b> On-hand balance	
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Module 4 Section C: Material Requirements Planning	The item produced from one or more components. Syn.: parent.
<b>Term</b> Parent item	
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Module 4 Section C: Material Requirements Planning	
<b>Term</b> Parts requisition	An authorization that identifies the item and quantity required to be withdrawn from an inventory. Syn.: requisition. See: purchase requisition.
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Term   Phantom bill of material   Phantom bill of material	n.
Module 4   Section C: Material Requirements Planning   The quantity planned to be received at a future date	as
ABICS CRIM Learning System    ⓐ 2025   ]   ]   ]	n
APICS CPIM Learning System	
Module 4   Section C: Material Requirements Planning   A row on an MRP table that is derived from planned	
Term   Planned order release	
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Module 4   Section C: Material Requirements Planning   The process of calculating the demand for the	
Term components of a parent item by multiplying the parent item requirements by the component usage quantity specified in the bill of material. Syn.: explosion.   Requirements explosion a	nt '
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Module 4 Section C: Material Requirements Planning	The process of changing order or operation due dates, usually as a result of their being out of phase with production or customer commitments.
<b>Term</b> Rescheduling	
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Module 4 Section C: Material Requirements Planning	
<b>Term</b> Scheduled receipt	An open order that has an assigned due date. See: open order.
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<b>Module 4</b> Section C: Material Requirements Planning	
<b>Term</b> Scrap	Material outside of specifications and possessing characteristics that make rework impractical.
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Module 4 Section C: Material Requirements Planning	A factor that expresses the quantity of a particular component that is expected to be scrapped upon receipt from a vendor, completion of production, or while that component is being built into a given assembly. It is usually expressed as a decimal value. For a given operation or process, [this] plus the yield factor is equal to 1. For example, if [this] is 30 percent (or .3), then the yield is 70 percent (or .7). In manufacturing planning and control systems, [it] is usually related to a specific item in the item master, but may be related to a specific component in the product structure. For example, if 50 units of a product are required by a customer and [this is expected to be 30 percent (with a yield of 70 percent), then] 72 units (computed as 50 units divided by .7) should be started in the manufacturing process. Syn.: scrap rate. See: yield, yield factor.
<b>Term</b> Scrap factor	
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Module 4 Section C: Material Requirements Planning Term Single-level bill of material	A display of components that are directly used in a parent item. It shows only the relationships one level down.
Module 4 Section C: Material Requirements Planning	A form of multilevel bill of material that lists all the parts and their quantities required in a given product structure. Unlike the indented bill of material, it does not list the levels of manufacture and lists a component only once for the total quantity used.
<b>Term</b> Summarized bill of material	
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<b>Module 4</b> Section C: Material Requirements Planning	The amount of good or acceptable material available after the completion of a process. Usually computed as the final amount divided by the initial amount converted to a decimal or percentage. In manufacturing planning and control systems, [this] is usually related to specific routing steps or to the parent item to determine how many units should be scheduled to produce a specific number of finished goods. For example, if 50 units of a product are required by a customer and [this is expected to be 70 percent,] then 72 units (computed as 50 units divided by .7) should be started in the manufacturing process. Syn.: material yield. See: scrap factor, yield factor.
Term Yield APICS CPIM Learning System © 2025	
<b>Module 4</b> Section C: Material Requirements Planning	A more unement of the vield of a process for a second
<b>Term</b> Yield factor	A measurement of the yield of a process. For a specific process or operation, yield factor plus scrap factor equals 1. See: scrap factor, yield.
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