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 5 Section A: Planning Detailed Schedules	A technique for calculating operation start dates and due dates. The schedule is computed starting with th
Term Back scheduling	due date for the order and working backward to determine the required start date and/or due dates for each operation. Syn.: backward scheduling. Ant: forward scheduling.
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Module 5 Section A: Planning Detailed Schedules	1) A manufacturing technique in which parts are
Term Batch processing	computer technique in which transactions are accumulated and processed together or in a lot. Syn.: batch production.
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Module 5 Section A: Planning Detailed Schedules	
Term Block scheduling	An operation scheduling technique where each operation is allowed a "block" of time, such as a day or a week.
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Module 5 Section A: Planning Detailed Schedules	
Term Capacity cushion	Extra capacity that is added to a system after capacity for expected demand is calculated. Syn.: safety capacity. See: protective capacity.
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Module 5 Section A: Planning Detailed Schedules Term Capacity requirements APICS CPIM Learning System	The resources needed to produce the projected level of work required from a facility over a time horizon. [These] are usually expressed in terms of hours of work or, when units consume similar resources at the same rate, units of production.
Module 5 Section A: Planning Detailed Schedules	
Term Capacity utilization	Goods produced, or customers served, divided by total output capacity.
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Module 5 Section A: Planning Detailed Schedules	
Term Central point scheduling	backward scheduling, starting from the scheduled start date of a particular operation.
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Module 5 Section A: Planning Detailed Schedules	The use of transducers (sensors) to monitor a process and make automatic changes in operations through
Term Continuous process control	Although such devices have historically been mechanical or electromechanical, there is now widespread use of microcomputers and centralized control.
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Module 5 Section A: Planning Detailed Schedules	A visual means of showing machine loading or project
Term Control board	planning, usually a variation of the basic Gantt chart. Syn.: dispatch(ing) board, planning board, schedule board. See: schedule chart.
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Module 5 Section A: Planning Detailed Schedules	A dispatching rule that calculates a priority index number by dividing the time to due date remaining by the expected elapsed time to finish the job. [This is
Term Critical ratio	calculated by dividing time remaining by work remaining. For example, a ratio less than 1.0 indicates the job is behind schedule, a ratio greater than 1.0 indicates the job is ahead of schedule, and a ratio of 1.0 indicates the job is on schedule.]
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Module 5 Section A: Planning Detailed Schedules	A listing of manufacturing orders in priority sequence. The dispatch list, which is usually communicated to the manufacturing floor via paper or electronic media.
Term Dispatch list	contains detailed information on priority, location, quantity, and the capacity requirements of the manufacturing order by operation. Dispatch lists are normally generated daily and oriented by work center. Syn.: work center schedule, priority report.
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Module 5 Section A: Planning Detailed Schedules	The collecting and conversion of evolution is to be
Term Dispatching	run at individual workstations and the assignment of those jobs to workers.
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Module 5 Section A: Planning Detailed Schedules	
Term Dispatching rule	The logic used to assign priorities to jobs at a work center.
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Module 5 Section A: Planning Detailed Schedules	
Term External setup time	procedure performed while the process or machine is running. Ant: internal setup time.
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Module 5 Section A: Planning Detailed Schedules	An equipment scheduling technique that builds a
Term Finite forward scheduling	schedule by proceeding sequentially from the initial period to the final period while observing capacity limits. A Gantt chart may be used with this technique. See: finite loading.
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Module 5 Section A: Planning Detailed Schedules	
Term Flow rate	Running rate; the inverse of cycle time; for example, 360 units per shift (or 0.75 units per minute).
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Module 5	
Section A: Planning Detailed Schedules A scheduling technique where the scheduler proceed from a known start date and computes the completion date for an order, usually proceeding from the first	ds 'n
Term Forward scheduling	
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Module 5 Section A: Planning Detailed Schedules	
Term Internal setup time	3
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	
Term Job sequencing rules	۶
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Module 5 Section A: Planning Detailed Schedules	
The production planning and control techniques used to sequence and prioritize production quantities across operations in a job shop. Job shop scheduling	ss
APICS CPIM Learning System © 2025	

Module 5 Section A: Planning Detailed Schedules	A periodic report showing the plan for completing a jc
Term Job status	(usually the requirements and completion date) and the progress of the job against that plan.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	1) A span of time required to perform a process (or series of operations). 2) In a logistics context, the time between recognition of the need for an order and the
Term Lead time	receipt of goods. Individual components [] can include order preparation time, queue time, processing time, move or transportation time, and receiving and inspection time. Syn.: total lead time. See: manufacturing lead time, purchasing lead time.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	The operation with the least capacity in a series of operations with no alternative routings. The capacity
Term Limiting operation	as this] exists, the total system can be effectively scheduled by scheduling [this concept] and providing this operation with proper buffers. See: protective capacity, protective inventory.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	The amount of time, in hours, that a machine is
Term Machine hours	actually running. [These], rather than labor hours, may be used for planning capacity for scheduling and for allocating costs.
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Module 5 Section A: Planning Detailed Schedules	
Term Master route sheet	The authoritative route process sheet from which all other format variations and copies are derived.
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Module 5 Section A: Planning Detailed Schedules	
Term Move time	The time that a job spends in transit from one operation to another in the plant.
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Module 5 Section A: Planning Detailed Schedules	
Term One less at a time	A process of gradually reducing the lot size of the number of items in the manufacturing pipeline to expose, prioritize, and eliminate waste.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	1) The date when an operation should be completed
Term Operation due date	calculated based on scheduled quantities and lead times. 2) A job sequencing algorithm (dispatching rule) giving earlier operation due dates higher priority.
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Module 5 Section A: Planning Detailed Schedules An inf Term Operation setback chart APICS CPIM Learning System	graphical display of the bill of materials and lead-time formation provided by the routing for each part. The prizontal axis provides the lead time from raw laterials purchase to component manufacture to ssembly of the finished product.
Module 5 Section A: Planning Detailed Schedules	ne date when an operation should be started so that s order due date can be met. Can be calculated
Term ba Operation start date co	ased on scheduled quantities and lead times or on the work remaining and the time remaining to complete the job.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	ne total of setup and rup time for a specific task. Svp.
Term Operation time	beration duration.
Module 5 Section A: Planning Detailed Schedules	technique for short-term planning of actual jobs to be in in each work center based upon capacity (i.e
Term Operations sequencing	kisting workforce and machine availability) and riorities. The result is a set of projected completion mes for the operations and simulated queue levels for cilities.
APICS CPIM Learning System © 2025	

Module 5 Section A: Planning Detailed Schedules Term Order priority APICS CPIM Learning System	The scheduled due date to complete all the operations required for a specific order.
Module 5 Section A: Planning Detailed Schedules	A manufacturing schedule that "overlaps" successive operations. Overlapping occurs when the completed portion of an order at one work center is processed at
Term Overlapped schedule	one or more succeeding work centers before the pieces left behind are finished at the preceding work centers. Syn.: lap phasing, operation overlapping, telescoping. See: send ahead. Ant: gapped schedule, overlapped production.
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Module 5 Section A: Planning Detailed Schedules	
Term Primary work center	The work center where an operation on a manufactured part is normally scheduled to be performed. Ant: alternate work center.
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Module 5 Section A: Planning Detailed Schedules	The process of communicating start and completion
Term Priority control	execute a plan. The dispatch list is the tool normally used to provide these dates and priorities based on the current plan and status of all open orders.
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Module 5 Section A: Planning Detailed Schedules Term Process batch	The quantity or volume of output that is to be completed at a workstation before switching to a different type of work or changing an equipment setup.
Module 5 Section A: Planning Detailed Schedules	The function of routing and dispatching the work to be accomplished through the production facility and of performing supplier control. [It] encompasses the
Term Production activity control (PAC)	principles, approaches, and techniques needed to schedule, control, measure, and evaluate the effectiveness of production operations. See: shop floor control.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	The rate of production usually expressed in units, cases, or some other broad measure, expressed by a period of time (e.g., per hour, shift, day, or week). Syn.:
Term Production rate APICS CPIM Learning System © 2025	production level.
Module 5 Section A: Planning Detailed Schedules	
Term Production schedule	certain quantity of a specific item. Usually initiated by the production planning department.
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Module 5 Section A: Planning Detailed Schedules Term Term Queue management © 2025 APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term Queue time Queue time © 2025 Module 5 The amount of time a job waits at a work center before setup or work is performed on the job. [11] is one element of total manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time and work-in-process inventories. APICS CPIM Learning System © 2025 Module 5 The amount of time a job waits at a work center before setup or work is performed on the job. [11] is one element of total manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time and work-in-process inventories. Queue time © 2025 Module 5 Section A: Planning Detailed Schedules Term © 2025 The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	Module 5 Section A: Planning Detailed Schedules Term Queue APICS CPIM Learning System	A waiting line. In manufacturing, this refers to the jobs at a given work center waiting to be processed. As queues increase, so do average queue time and work- in-process inventory.
Term Queue management as products or customers, waiting in line for service. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term The amount of time a job waits at a work center before setup or work is performed on the job. [It] is one element of total manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time. Increases tot	Module 5 Section A: Planning Detailed Schedules	Tactics to doal with an excess number of items, such
APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules The amount of time a job waits at a work center before setup or work is performed on the job. [It] is one element of total manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time and work-in-process inventories. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Module 5 Section A: Planning Detailed Schedules The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	Term Queue management	as products or customers, waiting in line for service.
Module 5 Section A: Planning Detailed Schedules The amount of time a job waits at a work center before setup or work is performed on the job. [It] is one element of total manufacturing lead time. Increases in [Ithis] result in direct increases to manufacturing lead time and work-in-process inventories. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	APICS CPIM Learning System © 2	025
Term Queue time Increases in [this] result in direct increases to manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time and work-in-process inventories. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	Module 5 Section A: Planning Detailed Schedules	The amount of time a job waits at a work center before
APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Section A: Planning Detailed Schedules The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	Term Queue time	element of total manufacturing lead time. Increases in [this] result in direct increases to manufacturing lead time and work-in-process inventories.
Module 5 Section A: Planning Detailed Schedules The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.	APICS CPIM Learning System © 2	025
Term Term Run time Term	Module 5 Section A: Planning Detailed Schedules	The time required to process a piece or let at a specific
	Term Run time	operation. [This] does not include setup time. Syn.: run standards.
APICS CPIM Learning System © 2025	APICS CPIM Learning System © 2	025

	Module 5 Section A: Planning Detailed Schedules		In the theory of constraints, the planned amount by which available capacity exceeds current productive capacity. This capacity provides protection from planned activities (such as resource contention) and	
	Term Safety capacity		preventive maintenance and unplanned activities (such as resource breakdown, poor quality, rework, or lateness). [This] plus productive capacity plus excess capacity equals 100 percent of capacity. Syn.: capacity cushion. See: protective capacity.	
4	APICS CPIM Learning System © 2025			
	Module 5 Section A: Planning Detailed Schedules		Determining the order in which a manufacturing facility	
	Term Sequencing		is to process a number of different jobs in order to achieve certain objectives.	
	APICS CPIM Learning System © 2025			
	Module 5 Section A: Planning Detailed Schedules		1) The work required to change a specific machine, resource, work center, or line from making the last good piece of item A to making the first good piece of	
	Term Setup		effects of the last lot produced (e.g., teardown of the just-completed production, preparation of the equipment for production of the next scheduled item). Syn.: changeover, turnaround time.	
		•		
	Module 5 Section A: Planning Detailed Schedules		The time required for a specific machine. resource.	
	Term Setup time		work center, process, or line to convert from the production of the last good piece of item A to the first good piece of item B. Syn.: setup lead time.	
	APICS CPIM Learning System © 2025	8		

Module 5 Section A: Planning Detailed Schedules	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
Term Throughput	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.
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Module 5 Section A: Planning Detailed Schedules	A standard allowance that is assumed on any given
Term Transit time	order for the movement of items from one operation to the next. Syn.: travel time.
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Module 5 Section A: Planning Detailed Schedules	A management system whereby every metric that
Term Visual management	matters, standardized work, and improvement approaches are displayed on the shop floor and in the office.
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Module 5 Section A: Planning Detailed Schedules	
Term Wait time	The time a job remains at a work center after an operation is completed until it is moved to the next operation. It is often expressed as a part of move time.
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