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 Term Back scheduling	A technique for calculating operation start dates and due dates. The schedule is computed starting with the 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	 A manufacturing technique in which parts are accumulated and processed together in a lot. 2) A
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 APICS CPIM Learning System © 2025	An operation scheduling technique where each operation is allowed a "block" of time, such as a day or a week.
Module 5 Section A: Planning Detailed Schedules	Extra capacity that is added to a system after capacity
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	wc [Th or,	e resources needed to produce the projected level of ork required from a facility over a time horizon. nese] are usually expressed in terms of hours of work when units consume similar resources at the same te, units of production.
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Module 5 Section A: Planning Detailed Schedules		
Term Capacity utilization		bods produced, or customers served, divided by total tput capacity.
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Module 5 Section A: Planning Detailed Schedules		
Term Central point scheduling	ba	variant of scheduling that employs both forward and ckward scheduling, starting from the scheduled start te of a particular operation.
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Module 5 Section A: Planning Detailed Schedules	an	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 be mechanical or electromechanical, there is n	echanical or electromechanical, there is now despread use of microcomputers and centralized
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Module 5 Section A: Planning Detailed Schedules Term Control board	A visual means of showing machine loading or project planning, usually a variation of the basic Gantt chart. Syn.: dispatch(ing) board, planning board, schedule board. See: schedule chart.
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 APICS CPIM Learning System © 2025	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.
Module 5 Section A: Planning Detailed Schedules	The selecting and sequencing of available jobs to be
Term Dispatching	The selecting and sequencing of available jobs to be 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.
Module 5 Section A: Planning Detailed Schedules	The time associated with elements of a setup
Term External setup time APICS CPIM Learning System © 2025	procedure performed while the process or machine is running. Ant: internal setup time.
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 proceeds from a known start date and computes the completion
Term Forward scheduling	date for an order, usually proceeding from the first operation to the last. Dates generated by this technique are generally the earliest start dates for operations. See: forward pass. Ant: back scheduling.
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Module 5 Section A: Planning Detailed Schedules	
Term Internal setup time	The time associated with elements of a setup procedure performed while the process or machine is not running. Ant: external setup time.
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Module 5 Section A: Planning Detailed Schedules	
Term Job sequencing rules	A set of priorities and conditions that specify the order in which jobs are processed because of scarce resources.
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Module 5 Section A: Planning Detailed Schedules	The production planning and control techniques used
Term Job shop scheduling	 The production planning and control techniques used to sequence and prioritize production quantities across operations in a job shop.
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Module 5 Section A: Planning Detailed Schedules	
Term Job status	 A periodic report showing the plan for completing a job (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 of
Term Limiting operation	the total system can be no greater than [this. As long 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 APICS CPIM Learning System	The authoritative route process sheet from which all other format variations and copies are derived.
Module 5 Section A: Planning Detailed Schedules	
Term Move time APICS CPIM Learning System © 2025	The time that a job spends in transit from one operation to another in the plant.
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.
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Module 5 Section A: Planning Detailed Schedules	1) The date when an operation should be completed so that its order due date can be met. It can be
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.
APICS CPIM Learning System © 2025	;

Module 5 Section A: Planning Detailed Schedules	A graphical display of the bill of materials and lead-tim information provided by the routing for each part. The horizontal axis provides the lead time from raw
Term Operation setback chart	materials purchase to component manufacture to assembly of the finished product.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	The date when an operation should be started so that its order due date can be met. Can be calculated
Term Operation start date	based 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	The total of setup and run time for a specific task. Sy operation duration.
Term Operation time	
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	A technique for short-term planning of actual jobs to be run in each work center based upon capacity (i.e., existing workforce and machine availability) and priorities. The result is a set of projected completion times for the operations and simulated queue levels fo facilities.
Term Operations sequencing	
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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	The work center where an operation on a
Term Primary work center	manufactured part is normally scheduled to be performed. Ant: alternate work center.
APICS CPIM Learning System © 2025	
Module 5 Section A: Planning Detailed Schedules	The process of communicating start and completion dates to manufacturing departments in order to
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.
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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.
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Module 5 Section A: Planning Detailed Schedules	The rate of production usually expressed in units,
Term Production rate	cases, or some other broad measure, expressed by a period of time (e.g., per hour, shift, day, or week). Syn.: production level.
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Module 5 Section A: Planning Detailed Schedules	
Term Production schedule	 A plan that authorizes the factory to manufacture a certain quantity of a specific item. Usually initiated by the production planning department.
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Module 5 Section A: Planning Detailed Schedules	A waiting line. In manufacturing, this refers to the jobs
Term Queue	at a given work center waiting to be processed. As queues increase, so do average queue time and work- in-process inventory.
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Module 5 Section A: Planning Detailed Schedules	
Term Queue management	Tactics to deal with an excess number of items, such as products or customers, waiting in line for service.
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Module 5 Section A: Planning Detailed Schedules	The amount of time a job waits at a work center before
Term Queue time	 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.
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Module 5 Section A: Planning Detailed Schedules	
Term Run time	The time required to process a piece or lot at a specific operation. [This] does not include setup time. Syn.: run standards.
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Module 5 Section A: Planning Detailed Schedules Term Safety capacity APICS CPIM Learning System	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 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.
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	j •
Module 5 Section A: Planning Detailed Schedules Term Setup	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 item B. 2) The refitting of equipment to neutralize the 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.
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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.
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Module 5 Section A: Planning Detailed Schedules Term Throughput APICS CPIM Learning System Wodule 5 Section A: Planning Detailed Schedules Module 5 Section A: Planning Detailed Schedules Module 5 Section A: Planning Detailed Schedules APICS CPIM Learning System @ 2025 Module 5 Section A: Planning Detailed Schedules APICS CPIM Learning System @ 2025 Module 5 Section A: Planning Detailed Schedules A standard allowance that is assumed on any given order for the movement of items from one operation to the next. Syn.: travel time. APICS CPIM Learning System @ 2025 Module 5 Section A: Planning Detailed Schedules A management visual management A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Module 5 Section A: Planning Detailed Schedules APICS CPIM Learning System @ 2025 Module 5 Section A: Planning Detailed Schedules Term Wait time Wait time APICS CPIM Learning Syste		
Module 5 Section A: Planning Detailed Schedules A standard allowance that is assumed on any given order for the movement of items from one operation to the next. Syn.: travel time. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Module 5 Section A: Planning Detailed Schedules A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Module 5 Section A: Planning Detailed Schedules 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.	Section A: Planning Detailed Schedules Term Throughput	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.
Section A: Planning Detailed Schedules A standard allowance that is assumed on any given order for the movement of items from one operation to the next. Syn.: travel time. Term Transit time APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term Visual management APICS CPIM Learning System © 2025 Module 5 A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Module 5 Section A: Planning Detailed Schedules Module 5 Section A: Planning Detailed Schedules Therm © 2025 Module 5 Section A: Planning Detailed Schedules 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.	APICS CPIM Learning System © 2025	
Ierm Transit time APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Visual management © 2025 APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Module 5 Section A: Planning Detailed Schedules 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.		order for the movement of items from one operation to
Section A: Planning Detailed Schedules A management system whereby every metric that matters, standardized work, and improvement approaches are displayed on the shop floor and in the office. Term Visual management APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term 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.	Transit time	
Term approaches are displayed on the shop floor and in the office. APICS CPIM Learning System © 2025 Module 5 Section A: Planning Detailed Schedules Term 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. Wait time It is often expressed as a part of move time.		
Module 5 Section A: Planning Detailed Schedules 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. Wait time	Visual management	approaches are displayed on the shop floor and in the
Section A: Planning Detailed Schedules Term Wait time		
Term operation is completed until it is moved to the next operation. It is often expressed as a part of move time. Wait time It is often expressed as a part of move time.		
APICS CPIM Learning System © 2025		operation is completed until it is moved to the next
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