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an aspect of the transformation process that slows down the overall processing speed or creates a backlog of incompletely processed products

# capital-labour substitution

when machinery and technology displace people by doing the work instead

## computer-aided design (CAD)

a computerised design tool that allows businesses to create product possibilities from a series of input parameters

## computer-aided manufacturing (CAM)

software that controls the manufacturing processes

#### control

when key performance indicators are assessed against predetermined targets and corrective action is taken if required

critical	path analysis
	(CPA)

a scheduling method that shows what tasks need to be done, how long they take and what order is necessary to complete those tasks

# customer relationship management (CRM)

the systems that a business uses to maintain customer contact

#### customer service

how well a business meets and exceeds the expectations of customers in all aspects of its operations

### facilities

the plant (factory or office) and machinery used in the operations processes

# fixed position layout

an operational arrangement in which employees and equipment come to the product

Gantt chart	a type of bar chart that shows both the scheduled and completed work over a period of time, used for planning and tracking a project
improvement	the systematic reduction of inefficiencies and wastage, poor work processes and the elimination of bottlenecks
information	the knowledge gained from research, investigation and instruction, which results in an increase in understanding
inputs	the resources used in the transformation (production) process
intermediate goods	goods manufactured and used in further manufacturing or processing

key performance
indicators (KPIs)

specific criteria used to measure the efficiency and effectiveness of the performance of the business

lead time

the time it takes for an order to be fulfilled from the moment it is placed

materials

the basic elements used in the production process, consisting of two types: raw materials and intermediate goods

mix flexibility

the variety of products made, or services delivered through the information process

monitoring

the process of measuring actual performance against planned performance

outputs	the end result of business efforts - the good or service that is provided or delivered to the customer	
plant layout	the arrangement of equipment, machinery and staff within a facility	
process layout	the arrangement of machines such that the machines and equipment is grouped together according to the function they perform	
process production	production characterised by high- variety, low-volume jobs	
product layout	where the equipment arrangement is based on the sequence of tasks performed in manufacturing a product	

product production
(mass production)

production characterised by the manufacturing of a high volume of constant quality goods

project production

deals with the layout requirements for large-scale activities such as construction of bridges etc.

raw materials

essential substances in their unprocessed state

robotics

highly specialised technology, capable of complex tasks, programmable for assembly lines etc.

scheduling

the length of time activities take within the operations process

sequencing	the order in which activities in the operations process occur
skills audit	a formal process used to determine the present level of skills and any skill shortfalls that need to be made up through recruitment or training
task design	classifying job activities in ways that make it easy for an employee to successfully perform and complete the task
telecommute	to travel to work electronically, allowing work to be done via email or internet from home or another location
transformation	the conversion of inputs (resources) into outputs (goods and services)

transformed resources	those inputs that are changed or converted in the operations process	
transforming resources	those inputs that carry out the transformation process	
volume	how much of a product is made	
warranty	a promise made by a business that they will correct any defects in the goods that they produce or in the sales that they deliver	
workstations	desk areas for office workers, usually fitted with a computer, telephone, storage and access to a printer	