

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.

<p><b>Module 4</b> <i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b> 80-20</p>
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A term referring to the Pareto principle. The principle suggests that most effects come from relatively few causes; that is, [a larger] percent of the effects (or sales or costs) come from [a smaller] percent of the possible causes (or items). See: ABC classification.

<p><b>Module 4</b> <i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b> Appraisal costs</p>
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Those costs associated with the formal evaluation and audit of quality in the firm. Typical costs include inspection, quality audits, testing, calibration, and checking time.

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<p><b>Term</b> Buffer</p>
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In theory of constraints, time or material that supports throughput and/or due date performance.

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<p><b>Term</b> Constraint</p>
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Any element or factor that prevents a system from achieving a higher level of performance with respect to its goal.

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*Section D: Performance and Continuous Improvement*

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**Term**  
Continuous improvement (CI)

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The act of making incremental, regular improvements and upgrades to a process or product in the search for excellence.

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*Section D: Performance and Continuous Improvement*

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**Term**  
Continuous process improvement (CPI)

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A never-ending effort to expose and eliminate root causes of problems; small-step improvement as opposed to big-step improvement. Syn.: continuous improvement. See: kaizen.

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**Term**  
Control chart

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A graphic comparison of process performance data with predetermined computed control limits. The process performance data usually consists of groups of measurements selected in the regular sequence of production that preserve the order. The primary use of [these] is to detect assignable causes of variation in the process as opposed to random variations. [This] is one of the seven tools of quality. Syn.: process control chart.

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**Term**  
Cost of poor quality

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The costs associated with performing a task incorrectly and/or generating unacceptable output. These costs would include the costs of nonconformities, inefficient processes, and lost opportunities. See: quality costs.

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**Term**

Define, Measure, Analyze, Improve, Control (DMAIC) process

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A six sigma improvement process composed of five stages: (1) Determine the nature of the problem. (2) Measure existing performance and commence recording data and facts that offer information about the underlying causes of the problem. (3) Study the information to determine the root causes of the problem. (4) Improve the process by effecting solutions to the problem. (5) Monitor the process until the solutions become ingrained.

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**Term**

Heijunka

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In just-in-time philosophy, an approach to level production throughout the supply chain to match the planned rate of end product sales.

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**Term**

Inventory shrinkage

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Reductions of actual quantities of items in stock, in process, or in transit. The loss may be caused by scrap, theft, deterioration, evaporation, and so forth. Sometimes referred to as shrinkage.

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**Term**

Just in time (JIT)

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A philosophy of manufacturing based on planned elimination of all waste and on continuous improvement of productivity. It encompasses the successful execution of all manufacturing activities required to produce a final product, from design engineering to delivery, and includes all stages of conversion from raw material onward. The primary elements of [this] are to have only the required inventory when needed; to improve quality to zero defects; to reduce lead times by reducing setup times, queue lengths, and lot sizes; to incrementally revise the operations themselves; and to accomplish these activities at minimum cost. In the broad sense, it applies to all forms of manufacturing—job shop, process, and repetitive—and to many service industries as well. Syn.: short-cycle manufacturing, stockless production, zero inventories.

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**Term**  
Kaizen

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The Japanese term for improvement; refers to continuing improvement involving everyone—managers and workers. In manufacturing, [this] relates to finding and eliminating waste in machinery, labor, or production methods. See: continuous process improvement.

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**Term**  
Kaizen blitz

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A rapid improvement of a limited process area; for example, a production cell. Part of the improvement team consists of workers in that area. The objectives are to use innovative thinking to eliminate non-value-added work and to immediately implement the changes within a week or less. Ownership of the improvement by the area work team and the development of the team's problem-solving skills are additional benefits. See: kaizen event.

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**Term**  
Kaizen event

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A time-boxed set of activities carried out by the cell team during the week of cell implementation. [It] is an implementation arm of a lean manufacturing program. See: kaizen blitz.

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**Term**  
Key performance indicator (KPI)

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1) A financial or nonfinancial measure that is used to define and assess progress toward specific organizational goals and that typically is tied to an organization's strategy and business stakeholders. Should not be contradictory to other departmental or strategic business unit performance measures. 2) A metric used to measure the overall performance or state of affairs. SCOR level 1 metrics are an example.

<p><b>Module 4</b> <i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b> Lean metric</p>
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A metric that permits a balanced evaluation and response—quality without sacrificing quantity objectives. The types of metrics are financial, behavioral, and core-process performance.

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<p><b>Term</b> Lean production</p>
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A philosophy of production that emphasizes the minimization of the amount of all the resources (including time) used in the various activities of the enterprise. It involves identifying and eliminating non-value-adding activities in design, production, supply chain management, and dealing with customers. [It also employs] teams of multiskilled workers at all levels of the organization and use highly flexible, increasingly automated machines to produce volumes of products in potentially enormous variety. [It] contains a set of principles and practices to reduce cost through the relentless removal of waste and through the simplification of all manufacturing and support processes. Syn.: lean, lean manufacturing.

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<p><b>Term</b> Load leveling</p>
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Spreading orders out in time or rescheduling operations so that the amount of work to be done in sequential time periods tends to be distributed evenly and is achievable. Although [this ideally applies to] both material and labor, specific businesses and industries may load to one or the other exclusively (e.g., service industries). Syn.: capacity smoothing, level loading. See: level schedule.

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<p><b>Term</b> Operational performance measurements</p>
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1) In traditional management, performance measurements related to machine, worker, or department efficiency or utilization. These performance measurements are usually poorly correlated with organizational performance. 2) In theory of constraints, performance measurements that link causally to organizational performance measurements. Throughput, inventory, and operating expense are examples. See: global performance measurements, local performance measurements, strategic performance measurements.

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**Term**  
Pareto chart

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A bar graph that displays the results of a Pareto analysis. It may or may not display the 80-20 variation, but it does show a distinct variation from the few compared to the many.

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**Term**  
Pareto's law

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A concept developed by Vilfredo Pareto, an Italian economist, that states that a small percentage of a group accounts for the largest fraction of its impact or value. In an ABC classification, for example, 20 percent of the inventory items may constitute 80 percent of the inventory value. See: ABC classification, 80-20.

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**Term**  
Process map

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A diagram of the flow of a production process or service process through the production system. Standardized symbols are used to designate processing, flow directions, branching decisions, input/output, and other aspects of the process.

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**Term**  
Quality

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Conformance to requirements or fitness for use.

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**Term**  
Setup time

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The time required for a specific machine, resource, 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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**Term**  
Six sigma

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A methodology that furnishes tools for the improvement of business processes. The intent is to decrease process variation and improve product quality.

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**Term**  
Statistical process control (SPC)

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The application of statistical techniques to monitor and adjust an operation. Often used interchangeably with statistical quality control, although statistical quality control [also includes acceptance sampling.]

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**Term**  
Stock keeping unit (SKU)

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1) An inventory item. For example, a shirt in six colors and five sizes represents 30 [of these]. 2) In a distribution system, an item at a particular geographic location. For example, one product stocked at the plant and at six different distribution centers would represent seven [of these].

<p><b>Module 4</b></p> <p><i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b></p> <p>Total productive maintenance (TPM)</p>
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Preventive maintenance plus continuing efforts to adapt, modify, and refine equipment to increase flexibility, reduce material handling, and promote continuous flows. It is operator-oriented maintenance with the involvement of all qualified employees in all maintenance activities. Syn.: total preventive maintenance.

<p><b>Module 4</b></p> <p><i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b></p> <p>Total quality management (TQM)</p>
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A management approach to long-term success through customer satisfaction; based on the participation of all members of an organization in improving processes, goods, services, and the culture in which they work.

<p><b>Module 4</b></p> <p><i>Section D: Performance and Continuous Improvement</i></p>
<p><b>Term</b></p> <p>Value stream</p>
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The processes of creating, producing, and delivering a good or service to the market. For a good, [this] encompasses the raw material supplier, the manufacture and assembly of the good, and the distribution network. For a service, [this] consists of suppliers, support personnel and technology, the service “producer,” and the distribution channel. May be controlled by a single business or a network of several businesses.

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<p><b>Term</b></p> <p>Velocity</p>
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1) The rate of change of an item with respect to time. See: inventory turnover, lead time. 2) In supply chain management, a term used to indicate the relative speed of all transactions, collectively, within a supply chain community. [The maximum of this] is most desirable because it indicates higher asset turnover for stockholders and faster order-to-delivery response for customers.

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**Term  
Waste**

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1) Any activity that does not add value to the good or service in the eyes of the consumer. 2) A by-product of a process or task with unique characteristics requiring special management control. [The] production [of this] can usually be planned and somewhat controlled. Scrap is typically not planned and may result from the same production run as [this term]. See: hazardous waste.