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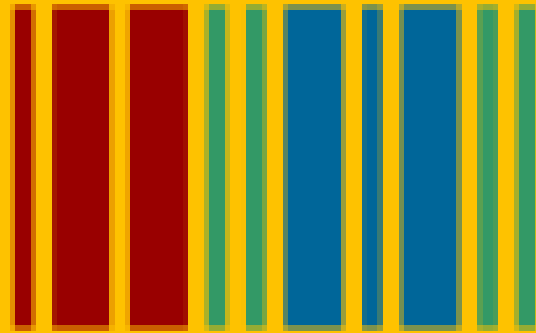
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Alice White, 4th September 2018

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History of engineering

From Wikipedia, the free encyclopedia

The *concept* of engineering has existed since ancient times as humans devised fundamental inventions such as the [pulley](#), [lever](#), and [wheel](#). Each of these inventions is consistent with the modern definition of engineering, exploiting basic mechanical principles to develop useful [tools](#) and objects.

The term *engineering* itself has a much more recent etymology, deriving from the word *engineer*, which itself dates back to 1325, when an *engine'ër* (literally, one who operates an *engine*) originally referred to "a constructor of military engines."^[1] In this context, now obsolete, an "engine" referred to a military machine, *i. e.*, a mechanical contraption used in war (for example, a [catapult](#)). The word "engine" itself is of even older origin, ultimately deriving from the [Latin](#) *ingenium* (c. 1250), meaning "innate quality, especially mental power, hence a clever invention."^[2]

Later, as the design of civilian structures such as bridges and buildings matured as a technical discipline, the term [civil engineering](#)^[3] entered the lexicon as a way to distinguish between those specializing in the construction of such non-military projects and those involved in the older discipline of [military engineering](#) (the original meaning of the word "engineering," now largely obsolete, with notable exceptions that have survived to the present day such as military engineering corps, *e. g.*, the [U. S. Army Corps of Engineers](#)).

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Ancient Era [\[edit\]](#) [\[edit source\]](#)

The [Acropolis](#) and the [Parthenon](#) (left) and the [Great Pyramid of Giza](#) (right) are examples of early engineering. Some of the [Mayan](#), [Inca](#) and [Aztec](#) Empires

The earliest civil engineer known to history is the Chinese inventor [Shi Luo](#) (c. 2630-2611 BC.^[4] He may also have been the inventor of the [waterwheel](#).

[Ancient Greece](#) developed machines that were among the first examples of early mechanical engineering. Some of these machines were used to help design the [gear trains](#) of the Industrial revolution and are still widely used today in diverse fields such as [robotics](#) and [automotive engineering](#).

Chinese and Roman armies employed complex military machines including the [Ballista](#) and [catapult](#). In the Middle Ages, the [Trebuchet](#) was developed.



The [Watt steam engine](#), a major driver in the [industrial revolution](#), underscores the importance of engineering in modern history. This model is on display at the main building of the ETSIIM in Madrid, Spain

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Workfare

Workfare is an alternative model to conventional [social welfare](#) systems. The term was first introduced by [civil rights leader James Charles Evers](#) in 1968; how televised speech August 1969.^[1] An early model of workfare had been pioneered in 1961 by [Joseph Mitchell](#) in [Newburgh, New York](#).^[2]

Traditional welfare benefits systems are usually awarded based on certain conditions, such as searching for work, or based on meeting criteria that would position the recipient as unavailable to seek employment or be employed. Under workfare, recipients have to meet certain participation requirements to continue to receive their welfare benefits. These requirements are often a combination of activities that are intended to improve the recipient's job prospects (such as training, [rehabilitation](#), and [work experience](#)) and those designated as contributing to society (such as unpaid or low-paid work). These programs, now common in [Australia](#) (as "mutual obligation"), [Canada](#), and the [United Kingdom](#), have generated considerable debate and controversy. In the [Netherlands](#) workfare is known as Work First, based on the Wisconsin Works program from the United States.

There are two main types of workfare scheme: the first is based on providing training and education to those currently unemployed.

In the [Third World](#), similar schemes are designed to be more available. For example, the [National Rural Employment Guarantee Act](#) is available. However, a workfare model typically not only focuses on providing training and education to those currently unemployed.

Goals of workfare

The purported main goal of workfare is to generate income for welfare recipients, and creating an income that generates a path to gainful long-term employment. Welfare-to-work programs aim to break the cycle of poverty in which welfare dependence can become a way of life. Workfare participants may retain certain employee rights throughout the process, however, often workfare programs are determined to be "outside employment relationships" and therefore the rights of beneficiaries can be different.^[5]

Some workfare systems also aim to derive a contribution from welfare recipients by more direct means. These systems obligate unemployed people to undertake work that is beneficial to their community. The rationale behind these programs is threefold. First, taxpayers may feel that they get "more value for their welfare dollar" when they observe welfare recipients working for benefits, making such programs more politically popular. Second, putting unemployed people into a workplace-like environment attempts to address the argument that one of the biggest barriers to employment for the long-term unemployed is their lack of recent workforce experience. Finally, and perhaps most importantly, the result of these programs support social cohesion and can build the overall social fabric of communities.

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Good agricultural practice

From Wikipedia, the free encyclopedia

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- This article **is in a list format that may be better presented using prose**. *(July 2012)*
- This article includes a **list of references**, but **its sources remain unclear** because it has **insufficient inline citations**. *(July 2012)*
- This article's **lead section does not adequately summarize key points of its contents**. *(July 2012)*

Good agricultural practice (GAP) are specific methods, when applied to **agriculture**, create food for consumers or further processing that is safe and wholesome. While there are numerous competing definitions of what methods constitute good agricultural practice there are a few broadly accepted schemes that producers can adhere to.

Contents [hide]

- Food and Agricultural Organization of the United Nations GAP
- United States Department of Agriculture GAP program
- Smallholder productivity
- Soil

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AP [edit]

... practice as a collection of principles to apply for on-farm production and post-production processes, resulting in safe and healthy **food** and **mental sustainability**.

... applied through sustainable agricultural methods,

... nutritious food (**food quality**);*Research that works for developing countries and Australia*. Retrieved 25 November 2007.

... ch of the major agro-ecological area (see **ecoregion**), thus to collect, analyze and disseminate information of good practices in relevant

gram [edit]

The **United States Department of Agriculture** Agricultural Marketing Service currently operates an audit/certification program to verify that farms use good agricultural practice and/or good handling practice. This is a voluntary program



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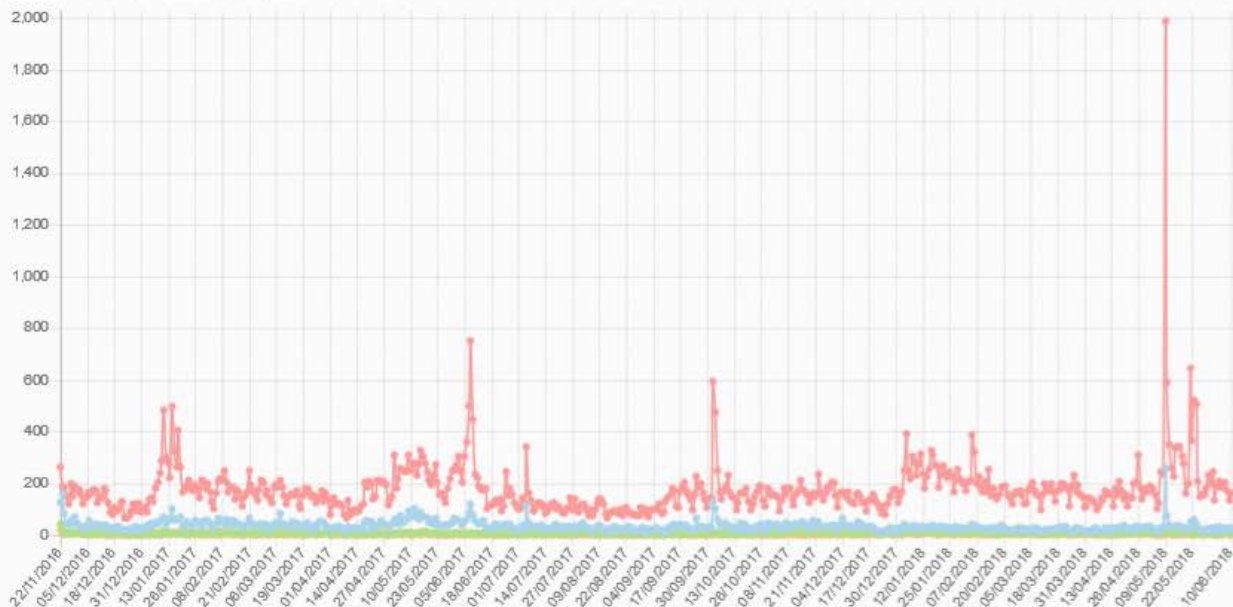
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🇬🇧 History of the National Health Service		19,572	35	44	26	44,968	Unknown	All languages • Redirects
🇬🇧 History of NHS Scotland		4,132	7	12	5	4,262	Unknown	All languages • Redirects
🇬🇧 History of NHS Wales		1,715	3	3	2	1,185	Unknown	All languages • Redirects
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