

Civil Engineers Handbook Of Professional Practice

Civil engineering

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Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canals, dams, airports, sewage systems, pipelines, structural components of buildings, and railways.

Civil engineering is traditionally broken into a number of sub-disciplines. It is considered the second-oldest engineering discipline after military engineering, and it is defined to distinguish non-military engineering from military engineering. Civil engineering can take place in the public sector from municipal public works departments through to federal government agencies, and in the private sector from locally based firms to Fortune Global 500 companies.

Chartered Institution of Civil Engineering Surveyors

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The Chartered Institution of Civil Engineering Surveyors or CICES is a professional association in the field of civil engineering surveying, headquartered in the United Kingdom. CICES members consist mainly of commercial managers, quantity surveyors, and geospatial engineers working and studying within civil engineering surveying. The institution began in 1969 as the Association of Surveyors in Civil Engineering, became a registered educational charity in 1992, and received a royal charter in 2009.

Engineer

whose practice and practitioners are licensed and governed by law. Licensed professional engineers are referred to as P.Eng. Many Canadian engineers wear

An engineer is a practitioner of engineering. The word engineer (Latin *ingeniator*, the origin of the *Ir.* in the title of engineer in countries like Belgium, The Netherlands, and Indonesia) is derived from the Latin words *ingeniare* ("to contrive, devise") and *ingenium* ("cleverness"). The foundational qualifications of a licensed professional engineer typically include a four-year bachelor's degree in an engineering discipline, or in some jurisdictions, a master's degree in an engineering discipline plus four to six years of peer-reviewed professional practice (culminating in a project report or thesis) and passage of engineering board examinations.

The work of engineers forms the link between scientific discoveries and their subsequent applications to human and business needs and quality of...

Regulation and licensure in engineering

Society of Professional Engineers, has sought to extend a single professional license and code of ethics for all engineers, regardless of practice area or

Regulation and licensure in engineering is established by various jurisdictions of the world to encourage life, public welfare, safety, well-being, then environment and other interests of the general public and to define the licensure process through which an engineer becomes licensed to practice engineering and to provide professional services and products to the public.

As with many other professions and activities, engineering is often a restricted activity. Relatedly, jurisdictions that license according to particular engineering discipline define the boundaries of each discipline carefully so that practitioners understand what they are competent to do.

A licensed engineer takes legal responsibility for engineering work, product or projects (typically via a seal or stamp on the relevant...

Professionalization

and predictability. Civil engineers were overtaken by mechanical engineers. In fact, the numbers of professional mechanical engineers increased by 600 percent

Professionalization or professionalisation is a social process by which any trade or occupation transforms itself into a true "profession of the highest integrity and competence." The definition of what constitutes a profession is often contested. Professionalization tends to result in establishing acceptable qualifications, one or more professional associations to recommend best practice and to oversee the conduct of members of the profession, and some degree of demarcation of the qualified from unqualified amateurs (that is, professional

certification). It is also likely to create "occupational closure", closing the profession and activities it encompasses to entry from outsiders, amateurs and the unqualified.

Occupations not fully professionalized are sometimes called semiprofessions. Critique...

Petroleum engineering

simulation Society of Petroleum Engineers SPE Certified Petroleum Professional "Petroleum Engineers: Occupational Outlook Handbook: U.S. Bureau of Labor Statistics"

Petroleum engineering is a field of engineering concerned with the activities related to the production of hydrocarbons, which can be either crude oil or natural gas or both. Exploration and production are deemed to fall within the upstream sector of the oil and gas industry. Exploration, by earth scientists, and petroleum engineering are the oil and gas industry's two main subsurface disciplines, which focus on maximizing economic recovery of hydrocarbons from subsurface reservoirs. Petroleum geology and geophysics focus on provision of a static description of the hydrocarbon reservoir rock, while petroleum engineering focuses on estimation of the recoverable volume of this resource using a detailed understanding of the physical behavior of oil, water and gas within porous rock at very high...

Combat engineer

Australian Army. While the officers of a combat engineer unit may be professionally certified civil or mechanical engineers, the non-commissioned members are

A combat engineer (also called pioneer or sapper) is a type of soldier who performs military engineering tasks in support of land forces combat operations. Combat engineers perform a variety of military engineering, tunnel and mine warfare tasks, as well as construction and demolition duties in and out of combat zones.

Combat engineers facilitate the mobility of friendly forces while impeding that of the enemy. They also work to assure the survivability of friendly forces, building fighting positions, fortifications, and roads. They conduct demolition missions and clear minefields manually or through use of specialized vehicles. Common combat engineer missions include construction and breaching of trenches, tank traps and other obstacles and fortifications; obstacle emplacement and bunker construction...

Chartered (professional)

Mechanical Engineers (1930). Coverage of the grant to the Institution of Civil Engineers made it clear that the title Chartered Civil Engineer was intended

A chartered professional is a person who has gained a specific level of skill or competence in a particular field of work, which has been recognised by the award of a formal credential by a relevant professional organization. Chartered status is considered a mark of professional competency, and is awarded mainly by chartered professional bodies and learned societies. It is common in Britain but is also used in Ireland, the United States and the Commonwealth, and has been adopted by organisations around the world.

Chartered status originates from royal charters issued to professional bodies in the UK by the British Monarch, although such is the prestige and credibility of a chartered designation that some non-UK organisations have taken to issuing chartered designations without Royal or Parliamentary...

Royal Engineers

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The Corps of Royal Engineers, usually called the Royal Engineers (RE), and commonly known as the Sappers, is the engineering arm of the British Army. It provides military engineering and other technical support to the British Armed Forces and is headed by the Chief Royal Engineer. The Corps Headquarters and the Royal School of Military Engineering are in Chatham in Kent, England. The corps is divided into several regiments, barracked at various places in the United Kingdom and around the world.

Software engineering

framework of a licensed professional engineer, originally developed for civil engineers, does not match the professional industrial practice of software

Software engineering is a branch of both computer science and engineering focused on designing, developing, testing, and maintaining software applications. It involves applying engineering principles and computer programming expertise to develop software systems that meet user needs.

The terms programmer and coder overlap software engineer, but they imply only the construction aspect of a typical software engineer workload.

A software engineer applies a software development process, which involves defining, implementing, testing, managing, and maintaining software systems, as well as developing the software development process itself.

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