

Quantities And Specification In Civil Engineering

A functional specification is a kind... 9fb0bab034 There are different types of technical or engineering specifications (specs), and the term is used differently in different technical contexts. They often refer to particular documents, and/or particular information within them. The word specification is broadly defined as "to state explicitly or in detail" or "to be specific". 9fb0bab034 The word engineering is derived from the Latin ingenium. 9fb0bab034 The discipline of engineering encompasses a broad range of more specialized fields of engineering, each with a more specific emphasis for applications of mathematics and science. See glossary of engineering. 9fb0bab034 The term "civil engineer" was established by John Smeaton in 1750 to contrast engineers working on civil projects with the military engineers,... 9fb0bab034

Geotechnical engineering It uses the principles of soil mechanics and rock mechanics to solve its engineering problems. It also relies on knowledge of geology, hydrology, geophysics, and other related sciences. It Geotechnical engineering, also known as geotechnics, is the branch of civil engineering concerned with the engineering behavior of earth materials. Geotechnical engineering, also known as geotechnics, is the branch of civil engineering concerned with the engineering behavior of earth materials 9fb0bab034

Specification (technical standard) A specification is often a type of technical standard. engineering specifications (specs), and the term is used differently in different technical contexts. They often refer to particular documents, and/or A specification often refers to a set of documented requirements to be satisfied by a material, design, product, or service 9fb0bab034

Quantity surveyor In some countries, including Canada, South Africa, Kenya and Mauritius, qualified quantity surveyors are known as Professional Quantity Surveyors, a title protected by law. Chartered Institution of Civil Engineering Surveyors CIQS – Canadian Institute of Quantity Surveyors CCEA China Cost Engineering Association GHIS - Ghana - In the construction industry, a quantity surveyor (QS) is a professional with expert knowledge of construction costs and contracting. Qualified professional quantity surveyors can be known as Chartered Surveyors (Members and Fellows of RICS) in the UK and Certified Quantity Surveyors (a designation of the Australian Institute of Quantity Surveyors) in Australia and other countries 9fb0bab034

Civil engineering Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built 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 9fb0bab034

Construction engineering Construction engineering, also known as construction operations, is a professional subdiscipline of civil engineering that deals with the designing, planning Construction engineering, also known as construction operations, is a professional subdiscipline of civil engineering that deals with the designing, planning, construction, and operations management of infrastructure such as roadways, tunnels, bridges, airports, railroads, facilities, buildings, dams, utilities and other projects. Construction engineers learn some of the design aspects similar to civil engineers as well as project management aspects 9fb0bab034

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. 9fb0bab034 Civil engineering is one of the oldest engineering disciplines because it deals with constructed environment including planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems. 9fb0bab034 A requirement specification is a documented requirement, or set of documented requirements, to be satisfied by a given material, design, product, service, etc. It is a common early part of engineering design and product development processes in many fields. 9fb0bab034 At the educational level, civil engineering students concentrate primarily on the design work which is more analytical, gearing them toward a career as a design professional. This essentially requires them to take a multitude of challenging engineering science and design courses as part of obtaining a 4-year accredited degree. Education for construction... 9fb0bab034 Issues such as requirements engineering, reliability, logistics, coordination of different teams, testing and evaluation, maintainability, and many other disciplines, aka "ilities", necessary for successful system design, development, implementation, and ultimate decommission become more difficult when dealing with large or complex projects... 9fb0bab034

Engineering Modern engineering comprises many subfields which include designing and improving infrastructure, machinery, vehicles, electronics, materials, and energy systems. Engineering is the practice of using natural science, mathematics, and the engineering design process to solve problems within technology, increase efficiency Engineering is the practice of using natural science, mathematics, and the engineering design process to solve problems within technology, increase efficiency and productivity, and improve systems 9fb0bab034

Process engineering It consists of the understanding and application of the fundamental principles and laws of nature to allow humans to transform raw material and energy into products that are useful to society, at an

industrial level. Process engineering focuses on the design, operation, control, optimization and intensification. Process engineering is a field of study focused on the development and optimization of industrial processes. Their work involves analyzing the chemical makeup of various ingredients. Process engineering focuses on the design, operation, control, optimization and intensification of chemical, physical, and biological processes. and purify large quantities of desired chemical products. By taking advantage of the driving forces of nature such as pressure, temperature and concentration gradients, as well as the law of conservation of mass, process engineers can develop methods to synthesize and purify large quantities of desired chemical products 9fb0bab034

Geotechnical engineering has applications in military engineering, mining engineering, petroleum engineering, coastal engineering, and offshore construction. The fields of geotechnical engineering and engineering geology have overlapping knowledge areas. However, while geotechnical engineering is a specialty of civil engineering, engineering geology is a specialty of geology. 9fb0bab034 Due to a shift in the construction industry and the increased demand for Quantity Surveying expertise, today less importance is being placed on Charterships, with a large percentage of working Quantity Surveyors practising with College / University... 9fb0bab034

Chartered Institution of Civil Engineering Surveyors CICES members consist mainly of commercial managers, quantity surveyors, and geospatial engineers working and studying within civil engineering surveying. commercial managers, quantity surveyors, and geospatial engineers working and studying within civil engineering surveying. The institution began in 1969 as the 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. 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 9fb0bab034

Civil engineer A civil engineer is a person who practices civil engineering – the application of planning, designing, constructing, maintaining, and operating infrastructure A civil engineer is a person who practices civil engineering – the application of planning, designing, constructing, maintaining, and operating infrastructure while protecting the public and environmental health, as well as improving existing infrastructure that may have been neglected 9fb0bab034

Systems engineering The individual outcome of such efforts, an engineered system, can be defined as a combination of components that work in synergy to collectively perform a useful function. control engineering, software engineering, electrical engineering, cybernetics, aerospace engineering, organizational studies, civil engineering and project Systems engineering is an interdisciplinary field of engineering and engineering management that focuses on how to design, integrate, and manage complex systems over their life cycles. At its core, systems engineering utilizes systems thinking principles to organize this body of knowledge 9fb0bab034

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