

Etcs For Engineers

European Train Control System

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The European Train Control System (ETCS) is a train protection system designed to replace the many incompatible systems used by European railways, and railways outside of Europe. ETCS is the signalling and control component of the European Rail Traffic Management System (ERTMS).

ETCS consists of 2 major parts:

trackside equipment

on-board (on train) equipment

ETCS can allow all trackside information to be passed to the driver cab, removing the need for trackside signals. This is the foundation for future automatic train operation (ATO). Trackside equipment aims to exchange information with the vehicle for safely supervising train circulation. The information exchanged between track and trains can be either continuous or intermittent according to the ERTMS/ETCS level of application and to...

Stationary engineer

National Institute for the Uniform Licensing of Power Engineers National Institute of Power Engineers Standardization of Power Engineer Examinations Committee

A stationary engineer (also called an operating engineer, power engineer or process operator) is a technically trained professional who operates, troubleshoots and oversees industrial machinery and equipment that provide and utilize energy in various forms.

The title "power engineer" has different meanings in the United States and in Canada.

Stationary engineers are responsible for the safe operation and maintenance of a wide range of equipment including boilers, steam turbines, gas turbines, gas compressors, generators, motors, air conditioning systems, heat exchangers, heat recovery steam generators (HRSGs) that may be directly fired (duct burners) or indirectly fired (gas turbine exhaust heat collectors), hot water generators, and refrigeration machinery in

addition to its associated auxiliary...

Engineers India

"Profile | Engineers India Ltd": Archived from the original on 2 December 2021. Retrieved 30 November 2021. PTI (24 June 2014). "Engineers India gets

Engineers India Limited (EIL) is an Indian public sector industrial technology, engineering consultancy and technology licensing company. It was set up in 1965 with the mandate of providing indigenous technology solutions across hydrocarbon projects. Over the years, it has also diversified into synergic sectors like non-ferrous metallurgy, infrastructure, water and wastewater management and fertilizers.

EIL is headquartered at Bhikaji Cama Place, New Delhi. EIL also has an R&D complex at Gurgaon, a branch office in Mumbai, regional offices at Kolkata, Chennai, Vadodara, inspection offices at all major equipment manufacturing locations in India and overseas offices in London (England), Milan (Italy), Shanghai (China), Abu Dhabi (UAE).

EIL has a wholly owned subsidiary Certification Engineers...

Indian Army Corps of Engineers

training institution of the Indian Army Corps of Engineers. The Corps consists of three groups of combat engineers, namely the Madras Sappers, the Bengal Sappers

The Indian Army Corps of Engineers is a combat support arm which provides combat engineering support, develops infrastructure for armed forces and other defence organisations and maintains connectivity along the borders, besides helping the civil authorities during natural disasters. College of Military Engineering, Pune (CME) is the premier technical and tactical training institution of the Indian Army Corps of Engineers.

The Corps consists of three groups of combat engineers, namely the Madras Sappers, the Bengal Sappers and the Bombay Sappers.

It has a long history dating back to the mid-18th century. The earliest existing subunit of the Corps (18 Field Company) dates back to 1777 while the Corps officially recognises its birth as 1780 when the senior-most group of the Corps, the Madras...

Combat engineer

Typically, combat engineers are also trained in infantry tactics and, when required, serve as provisional infantry. Combat engineers play a key role in

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...

Institution of Civil Engineers

The Institution of Civil Engineers (ICE) is an independent professional association for civil engineers and a charitable body in the United Kingdom. Based

The Institution of Civil Engineers (ICE) is an independent professional association for civil engineers and a charitable body in the United Kingdom. Based in London, ICE has over 92,000 members, of whom three-quarters are located in the UK, while the rest are located in more than 150 other countries. The ICE aims to support the civil engineering profession by offering professional qualification, promoting education, maintaining professional ethics, and liaising with industry, academia and government. Under its commercial arm, it delivers training, recruitment, publishing and contract services. As a professional body, ICE aims to support and promote professional learning (both to students and existing practitioners), managing professional ethics and safeguarding the status of engineers, and...

Civil engineer

term "civil engineer" was established by John Smeaton in 1750 to contrast engineers working on civil projects with the military engineers, who worked

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.

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.

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United States Army Corps of Engineers

Lieutenant Shaun Martin, "Confederate Engineers in the American Civil War," Engineer: The Professional Bulletin for Army Engineers. Technology Industry. U.S. Civil

The United States Army Corps of Engineers (USACE) is the military engineering branch of the United States Army. A direct reporting unit (DRU), it has three primary mission areas: Engineer Regiment, military construction, and civil works. USACE has 37,000 civilian and military personnel, making it one of the world's largest public engineering, design, and construction management agencies. The USACE workforce is approximately 97% civilian, 3% active duty military. The civilian workforce is mainly located in the United States, Europe and in select Middle East office locations. Civilians do not function as active duty military and are not required to be in active war and combat zones; however, volunteer (with pay) opportunities do exist for civilians to do so.

The day-to-day activities of the...

Engineer

important asset for engineers. Engineers apply techniques of engineering analysis in testing, production, or maintenance. Analytical engineers may supervise

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...

Test engineer

well. Test engineers can have different expertise, which depends on what test process they are more familiar with (although many test engineers have full

A test engineer is a professional who determines how to create a process that would best test a particular product in manufacturing and related disciplines, in order to assure that the product meets applicable specifications. Test engineers are also responsible for determining the best way a test can be performed in order to achieve adequate test coverage. Often test engineers also serve as a liaison between manufacturing, design engineering, sales engineering and marketing communities as well.

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