

Marine Engineering Knowledge

Marine engineering

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Marine engineering is the engineering of boats, ships, submarines, and any other marine vessel. Here it is also taken to include the engineering of other ocean systems and structures – referred to in certain academic and professional circles as "ocean engineering". After completing this degree one can join a ship as an officer in engine department and eventually rise to the rank of a chief engineer. This rank is one of the top ranks onboard and is equal to the rank of a ship's captain. Marine engineering is the highly preferred course to join merchant Navy as an officer as it provides ample opportunities in terms of both onboard and onshore jobs.

Marine engineering applies a number of engineering sciences, including mechanical engineering, electrical engineering, electronic engineering, and...

Institute of Marine Engineering, Science and Technology

and knowledge of marine professionals worldwide." IMarEST is also a publisher of books, periodicals, journals and papers related to marine engineering, science

The Institute of Marine Engineering, Science and Technology (IMarEST) is the international membership body and learned society for marine professionals operating in the spheres of marine engineering, science, or technology. It has registered charity status in the UK. It has a worldwide membership of over 12,000 individuals based in over 128 countries. The institute is a member of the UK Science Council and a licensed body of the

Engineering Council UK.

Outline of knowledge

*Knowledge acquisition Knowledge base Knowledge engineering
Knowledge engineer Knowledge extraction Knowledge level
Knowledge level modeling Knowledge*

The following outline is provided as an overview of and topical guide to knowledge:

Knowledge – familiarity with someone or something, which can include facts, information, descriptions, and/or skills acquired through experience or education. It can refer to the theoretical or practical understanding of a subject. It can be implicit (as with practical skill or expertise) or explicit (as with the theoretical understanding of a subject); and it can be more or less formal or systematic.

Marine Engineers' Beneficial Association

meant that the ships were boarded with engineers of minimal marine engineering knowledge and unreliable machinery. This increase in speed greatly reduced

The Marine Engineers' Beneficial Association (MEBA) is the oldest maritime trade union in the United States still currently in existence, established in 1875. MEBA primarily represents licensed mariners, especially deck and engine officers working in the United States Merchant Marine aboard US-flagged vessels. It is a member union of the AFL-CIO.

MEBA officers work in both the oceans and the Great Lakes in many settings, including on container ships, tankers (including LNG carriers), cruise ships, drillships, tugboats and ferries, as well as in various capacities in the shoreside ship transport and marine industries and on government-contracted ships of the US Maritime Administration's Ready Reserve Force and US Navy's Military Sealift Command. Merchant mariners deliver critical defense cargo...

Society of Naval Architects and Marine Engineers

engineering, ocean engineering, and other marine-related professions through: The global exchange of knowledge and ideas relative to the marine industry Education

The Society of Naval Architects and Marine Engineers (SNAME) is a global professional society that provides a forum for the advancement of the engineering profession as applied to the marine field. Although it particularly names the naval architecture and marine engineering specialties, the society includes all types of engineers and professionals amongst its members and is dedicated to advancing the art, science and practice of naval architecture and marine engineering.

Bachelor of Engineering

oceanographic engineering. Specifically, marine engineering is the discipline of applying engineering sciences, including mechanical engineering, electrical

A Bachelor of Engineering (BEng) or a Bachelor of Science in Engineering (BSE) is an undergraduate academic degree awarded to a college graduate majoring in an engineering discipline at a higher education institution.

In the United Kingdom, a Bachelor of Engineering degree program is accredited by one of the Engineering Council's professional engineering institutions as suitable for registration as an incorporated engineer or chartered engineer with further study to masters level. In Canada, a degree from a Canadian university can be accredited by the Canadian Engineering Accreditation Board (CEAB). Alternatively, it might be accredited directly by another professional engineering institution, such as the US-based Institute of Electrical and Electronics Engineers (IEEE). The Bachelor of Engineering...

Geotechnical engineering

solve its engineering problems. It also relies on knowledge of geology, hydrology, geophysics, and other related sciences. Geotechnical engineering has applications

Geotechnical engineering, also known as geotechnics, is the

branch of civil engineering concerned with the engineering behavior of earth materials. 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.

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.

Marine technology

involved in marine technology are the following: naval architecture, marine engineering, ship design, ship building and ship operations; oil and gas exploration

Marine technology is defined by WEGEMT (a European association of 40 universities in 17 countries) as "technologies for the safe use, exploitation, protection of, and intervention in, the marine environment." In this regard, according to WEGEMT, the technologies involved in marine technology are the following: naval architecture, marine engineering, ship design, ship building and ship operations; oil and gas exploration, exploitation, and production; hydrodynamics, navigation, sea surface and sub-surface support, underwater technology and engineering; marine resources (including both renewable and non-renewable marine resources); transport logistics and economics; inland, coastal, short sea and deep sea shipping; protection of the marine environment; leisure and safety.

Outline of engineering

engineering Computer-aided engineering Knowledge engineering Language engineering Release engineering Teletraffic engineering Usability engineering Sustainable

The following outline is provided as an overview of and topical guide to engineering:

Engineering is the scientific discipline and profession that applies scientific theories, mathematical methods, and empirical evidence to design, create, and analyze technological solutions cognizant of safety, human factors, physical laws, regulations, practicality, and cost.

Structural engineering

glossary of structural engineering. Structural engineering theory is based upon applied physical laws and empirical knowledge of the structural performance

Structural engineering is a sub-discipline of civil engineering in which structural engineers are trained to design the 'bones and joints' that create the form and shape of human-made structures. Structural engineers also must understand and calculate the stability, strength, rigidity and earthquake-susceptibility of built structures for buildings and nonbuilding structures. The structural designs are integrated with those of other designers such as architects and building services engineer and often supervise the construction of projects by contractors on site. They can also be involved in the design of machinery, medical equipment, and vehicles where structural integrity affects functioning and safety. See glossary of structural engineering.

Structural engineering theory is based upon applied...

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