

Cmaa Practice Test Questions

ABET

Engineering Society (BMES) Construction Management Association of America (CMAA) Computing Sciences Accreditation Board (CSAB) Institute of Electrical and

ABET (pronounced A-bet), formerly known as the Accreditation Board for Engineering and Technology, Inc., is a non-governmental accreditation organization for post-secondary programs in engineering, engineering technology, computing, and applied and natural sciences.

As of October 2023, ABET had accredited 4,674 programs across 920 organizations in 42 countries. ABET also accredits online educational programs.

Architect

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An architect is a person who plans, designs, and oversees the construction of buildings. To practice architecture means to provide services in connection with the design of buildings and the space within the site surrounding the buildings that have human occupancy or use as their principal purpose. Etymologically, the term architect derives from the Latin architectus, which derives from the Greek (arkhi-, chief + tekton, builder), i.e., chief builder.

The professional requirements for architects vary from location to location. An architect's decisions affect public safety, and thus the architect must undergo specialised training consisting of advanced education and a practicum (or internship) for practical experience to earn a license to practice architecture. Practical, technical, and academic...

Project management

Seattle, WA: Project Management Institute. "Certified Construction Manager". CMAA. Archived from the original on November 28, 2013.

Retrieved November 23,

Project management is the process of supervising the work of a team to achieve all project goals within the given constraints. This information is usually described in project documentation, created at the beginning of the development process. The primary constraints are scope, time and budget. The secondary challenge is to optimize the allocation of necessary inputs and apply them to meet predefined objectives.

The objective of project management is to produce a complete project which complies with the client's objectives. In many cases, the objective of project management is also to shape or reform the client's brief to feasibly address the client's objectives. Once the client's objectives are established, they should influence all decisions made by other people involved in the project- for...

Welder

and best practices in the field. Welding, without the proper precautions appropriate for the process, can be a dangerous and unhealthy practice. However

A welder is a person or equipment that fuses materials together. The term welder refers to the operator, the machine is referred to as the welding power supply. The materials to be joined can be metals (such as steel, aluminum, brass, stainless steel etc.) or varieties of plastic or polymer. Welders typically have to have good dexterity and attention to detail, as well as technical knowledge about the materials being joined and best practices in the field.

Design-bid-build

work, structural steel frame, electrical systems, HVAC, and landscaping. Questions may arise during the bid (or tender) period, and the architect will typically

Design-bid-build (or design/bid/build, and abbreviated D-B-B or D/B/B accordingly), also known as Design-tender (or "design/tender"), traditional method, or hardbid, is a project delivery method in which the agency or owner contracts with separate entities for the design and construction of a project.

Design-bid-build is the traditional method for project delivery and differs in several substantial aspects from design-build.

There are three main sequential phases to the design-bid-build delivery method:

The design phase

The bidding (or tender) phase

The construction phase

Railway Tie Association

action, news, education, environmental and recycling concerns, product questions, and offer things for sale or trade. In or around October, the RTA holds

The Railway Tie Association (RTA) is a trade association in the railroad and rail transit industry. The purpose of the RTA is to promote the economical and environmentally sound use of wood crossties. The RTA is involved in research into crosstie design and ongoing activities dealing with sound forest management, conservation of timber resources, timber processing, wood preservation, environmentally sound used tie disposal, and safety of industry workers. The Association's mission statement is: "Our mission since 1919 has been to ensure that the engineered wood crosstie system continues to evolve and improve in order to remain cost-effective and to meet the ever-changing requirements of track systems around the world."

Construction

Residential construction practices, technologies, and resources must conform to local building authority's regulations and codes of practice. Materials readily

Construction is the process involved in delivering buildings, infrastructure, industrial facilities, and associated activities through to the end of their life. It typically starts with planning, financing, and design that continues until the asset is built and ready for use. Construction also covers repairs and maintenance work, any works to expand, extend and improve the asset, and its eventual demolition, dismantling or decommissioning.

The construction industry contributes significantly to many countries' gross domestic products (GDP). Global expenditure on construction activities was about \$4 trillion in 2012. In 2022, expenditure on the construction industry exceeded \$11 trillion a year, equivalent to about 13 percent of global GDP. This spending was forecasted to rise to around \$14.8...

Zoning

to geographically separate uses that are thought to be incompatible. In practice, zoning is also used to prevent new development from interfering with existing

In urban planning, zoning is a method in which a municipality or other tier of government divides land into land-use and building "zones", each of which has a set of regulations for new development that differs from other zones. Zones may be defined for a single use (e.g. residential, industrial), they may combine several compatible activities by use, or in the case of form-based zoning, the differing regulations may govern the density, size and shape of allowed buildings whatever their use. The planning rules for each zone determine whether planning permission for a given development may be granted. Zoning may specify a variety of outright and conditional uses of land. It may indicate the size and dimensions of lots that land may be subdivided into, or the form and scale of buildings. These...

Royal Institution of Chartered Surveyors

activities. In September 2021, an independent review exposed poor governance practices at the highest levels of the RICS organisation, prompting the resignations

The Royal Institution of Chartered Surveyors (RICS) is a global professional body for those working in the Built Environment, Construction, Land, Property and Real Estate. The RICS was founded in London in 1868. It works at a cross-governmental level, and aims to promote and enforce the highest international standards in the valuation, management and development of land, real estate, construction and infrastructure.

Founded as the Institution of Surveyors, it received a royal charter in 1881, and in 1947 became the Royal Institution of Chartered Surveyors. With a London HQ and regional offices across the United Kingdom, plus international offices, it serves a 113,000-strong membership distributed over nearly 150 countries. The RICS is linked to other national surveying institutions, collaborates...

Sustainability in construction

Environmental Protection Agency (EPA) defines sustainable construction as "the practice of creating structures and using processes that are environmentally responsible

Sustainable construction aims to reduce the negative health and environmental impacts caused by the construction process and by the operation and use of buildings and the built environment. It can be seen as the construction industry's contribution to more sustainable development. Precise definitions vary from place to place, and are constantly evolving to encompass varying approaches and priorities. More comprehensively, sustainability can be considered from three dimension of planet, people and profit across the entire construction supply chain. Key concepts include

the protection of the natural environment, choice of non-toxic materials, reduction and reuse of resources, waste minimization, and the use of life-cycle cost analysis.

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