

Cmaa Practice Test Questions

Sustainability in construction 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. 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. 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

Railway Tie Association 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. 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 bidding (or tender) phase 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... 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... 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...

Construction Construction also covers repairs and maintenance work, any works to expand, extend and improve the asset, and its eventual demolition, dismantling or decommissioning. Materials readily Construction is the process involved in delivering buildings, infrastructure, industrial facilities, and associated activities through to the end of their life. Residential construction practices, technologies, and resources must conform to local building authority’s regulations and codes of practice. It typically starts with planning, financing, and design that continues until the asset is built and ready for use

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

Welder Welding, without the proper precautions appropriate for the process, can be a dangerous and unhealthy practice. The materials to be joined can be metals (such as steel, aluminum, brass, stainless steel etc. The term welder refers to the operator, the machine is referred to as the welding power supply. 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.) or varieties of plastic or polymer. However A welder is a person or equipment that fuses materials together. and best practices in the field

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

Architect 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. person who plans, designs, and oversees the construction of buildings. e. Etymologically, the term architect derives from the Latin architectus, which derives from the Greek (arkhi-, chief + tekton, builder), i. , chief builder. To practice architecture means to provide services in connection with the design of An architect is a person who plans, designs, and oversees the construction of buildings

The design phase

Royal Institution of Chartered Surveyors activities. 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. 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

Zoning These. Zones may be defined for a single use (e. The planning rules for each zone determine whether planning permission for a given development may be granted. to geographically separate uses that are thought to be incompatible. It may indicate the size and dimensions of lots that land may be subdivided into, or the form and scale of buildings. 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. g. Zoning may specify a variety of outright and conditional uses of land. 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

Project management Archived from the original on November 28, 2013. CMAA. “Certified Construction Manager”. 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. Retrieved November 23, Project management is the process of supervising the work of a team to achieve all

project goals within the given constraints. Seattle, WA: Project Management Institute. This information is usually described in project documentation, created at the beginning of the development process 6de4a8bdc1

ABET , is a non-governmental accreditation organization for post-secondary programs in engineering, engineering technology, computing, and applied and natural sciences. 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 6de4a8bdc1

Design-bid-build 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. work, structural steel frame, electrical systems, HVAC, and landscaping 6de4a8bdc1

The construction phase 6de4a8bdc1 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... 6de4a8bdc1 There are three main sequential phases to the design-bid-build delivery method: 6de4a8bdc1

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