

Assignment

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Research Topic

The materials needed for the study of “**Construction Engineering**” at Degree level.

Introduction

Definition of construction engineering..... Reference

The importance of construction engineering in the society Reference

Aim

The aim of this study or research is to present the necessary materials or subjects to be studied.

Objectives

The research will cover two key significant areas which include,

-To enable the upcoming students or generation to have a good understanding of the construction engineering prior to starting their studies.

-To present a step-by-step requirement of the study of construction engineering

Literature Review

This section of the study or research will present current understanding or views about experts in the field of construction. According to (Wang 2017), construction engineering plays a very key role in the development of infrastructure such road, facility building and bridge construction. This are significant in the society because without infrastructure it will be difficult for businesses to survive, logistics and even the manufacturing industries cannot operate effectively. Another researcher stated that construction engineering is..... (Ref).

The methodology

This study adopted the literature-based approach using secondary published academic journals found online (google scholar), newspapers and organisation websites.

Importance of online materials..... (Reference)

Newspapers

Websites

Conclusion

This section presents the summary about the research.....

References

Wang, J., Wu, P., Wang, X. and Shou, W., 2017. The outlook of blockchain technology for construction engineering management. *Frontiers of engineering management*, pp.67-75.

CONSTRUCTION ENGINEERING

Construction engineering is a professional discipline that deals with the designing, planning, construction, and management of infrastructures such as roads, tunnels, bridges, airports, railroads, facilities, building, dams, utilities, and other projects.

This how construction engineering has improved in the society, people who study in construction engineering build and design protective structures like levees and traffic barriers. In addition, every major construction project needs a civil engineer to account for the various things that may cause danger in the future, including natural disasters.

The role of civil engineer is more than just designing building. As problem solvers and solution seekers, they are continuously looking for new (and better) ways to do things. Increase and advance, take the lead into a more useful and associated future.

Quantity surveyors estimate and control cost for large construction projects. They make sure that structures meet legal and quality standards. Quantity surveyors are involved at every stage of a project. Whether they are working on residential or industrial project, clients rely on them to ensure that the outcome is value for currency.

There are several roles to becoming a Quantity surveyor. You can gain the qualifications you need by university course or apprenticeship. If you already have relevant experience, you may be able to apply directly to an employer or train on the job. You can explore the options to find which one is right and best for you. You may need a (CSCS) CARD to work on a construction site but not all sites need CSCS CARD on site.



You could complete an undergraduate degree in quantity surveying or another relevant subject, as: Construction, Structural, civil engineering, Economics. Some skills are Strong math Knowledge, Excellent attention to detail, Analytical thinking skills, Understand of building and construction.

As a Quantity Surveyor you will be responsible for helping to estimate costs, quantities, and project timelines and providing this information to clients. You will be liaising with a variety of other teams and helping to keep a project track.

Are listed as: Liaising with clients to identify their need, submitting regular budget report, estimating quantities, cost and time scales for material and labour, preparing tender and contract documents, ensuring that clients value of their money, running a maintenance cost of specific buildings, and valuing complete work, managing budgets, and overseeing payments.

Talking about how much you could get as Quantity surveyor varies as you become more experienced.



Go construct (2022)



Project managers oversee the planning and delivery of construction project. They ensure that work is completed on time and within budget. They organise logistics, delegate work and keep track of spending. As a project manager, you could liaise with clients and construction professional to arrange schedule and direct activities.

There are several ways to become a project manager. You can gain the qualifications you need by doing a university or college course, or an apprenticeship. If you already have some experience, you may be able to apply for a job directly. You should explore these options to find out which is the right one for you.

Since project manager is part of the construction industry you will need a CSCS card to work on a construction site.

You could do an undergraduate degree in construction management, project management, business, or IT. If you already have a first degree you could study for postgraduate qualification in construction project management.

Some skills involve in becoming project manager are as follow:

Leaderships and business management skills, Knowledge of computer operating systems, hardware, and software, Persistence, and determination, Able to use your Initiative, be thorough and pay attention to details, Maths Knowledge, Excellent verbal communication skills.

As a project manager you will be responsible for helping to keep projects on a realistic timescale and budget. This Involves selecting and leading a project team and ensuring you are aware of all details so you can keep a client up to date.

Understanding what the client or company want to achieve, negotiating with contractors and suppliers, directing a multi-disciplinary team, overseeing several projects at the same time, resolving any issues or delays, Communication with staff at every level, in a calm, personable way and Working in an office or on the construction site.



Go construct (2022)

Architect creatively shape our environment by designing the building and spaces around us. They bring new structures to life and restore or renovate existing ones. Architects collaborate with others to ensure that designs are fit for purpose and safe, whether they are working on individual building or large developments.

There are ways to becoming an architect. You could do a university degree, an apprenticeship, or on the job training.

You should look at these roles to becoming an architect to find out which is the right one for you. Although some of these Options have a certain qualifications requirement, many employers are more interested in people who are enthusiastic, willing to learn and can follow instructions.

Again, you will need a CSCS card to work on a construction site even though you are an Architect.

To qualify as an architect, you will need to complete a five-year university course recognised by the Architects Registration Board (ARB) followed by at least two years of professional experience. Some skills needed before getting in the University are as follow:

Good grasp of numeracy, Knowledge of geography, Analytical thinking skills.

Excellent organisational abilities, Excellent verbal, and communication skills and Able to carry out basic tasks on computer or handheld device.

As an architect, you will be responsible for creating designs for new building and project. Duties may include using specialist tools and understanding the requirement of the business or client. The job role of an architect involves the following duties such as:

Creating new building designs, Liaising with client to understanding their needs, Considering budget, safety, and community requirement for a project, Drawing detailed plans and blueprints using computer design programmes, Working closely with contractors, engineers, surveyors, lawyers, and other departments, Ensuring jobs are completed on time and to budget, Inspecting structures during the building to make sure they meet requirements and also Working in a various place with occasional site visits and meetings.

The average salary for the architect varies as you become more experienced. Salaries depend on location, employer, and level of responsibility. Salaries and career option also improve with chartered status.



Go construct (2022)

Civil engineers plan, design and manage large construction projects. This could include bridges, buildings, transports links and other major structures. They use computers modelling software and data from surveys, test, and maps on the best course of action and help minimise environment impact and risk.

There are so many routes to becoming a civil engineer. You can gain the qualifications you need by doing a university or college course or you could apply for a civil engineering apprenticeship. If you already have relevant skills or experience, you may be able to apply directly to employer or train on the job.

Due to some reasons you need to have a CSCS card to work on site because civil engineer is classified as a construction.

You can become a civil engineer by enrolling on a four-year university degree course. Whilst studying, you could choose to specialise in a particular area, such as structural, environment or coastal engineering.

Can also be retrain as a civil engineer if you have a relevant undergraduate degree such as math, geology, or science.

You will generally need:

3 A levels (including maths and physics), or equivalent (undergraduate degree).

A first degree in relevant subject (postgraduate degree).

Additional skills which may benefit anyone considering a job as civil engineer include:

Knowledge of building and construction, Design skills and knowledge, be thorough and pay attention to detail, Excellent verbal communication skills, Able to use computer and main software packages confidently, Able to use initiative also to be Able to work with others.

Civil engineers often specialise in one area, sure as transportation (roads, airports, railways), environment (flood barriers, turbines), geotechnical (dams, pipelines, offshore platforms).

As a civil engineer you could be:

Assisting with site investigations, developing blueprints using computer – aided design (CAD), Assessing the worth and potential risks of projects, liaising with architects' subcontractors, consultants, co-workers, and clients, resolving design, and developing problems, attending public meetings to discuss projects.

Preparing project bids and reports and working on site in all weathers or in an office.

The average salary for the civil engineer varies as you become more experienced

Hours and salary depend on location, employer, and any overtime you may do.

Salaries and career options improve with chartered status.



Go construct (2022)

<https://www.goconstruct.org/> _ accessed on 09/03/2022

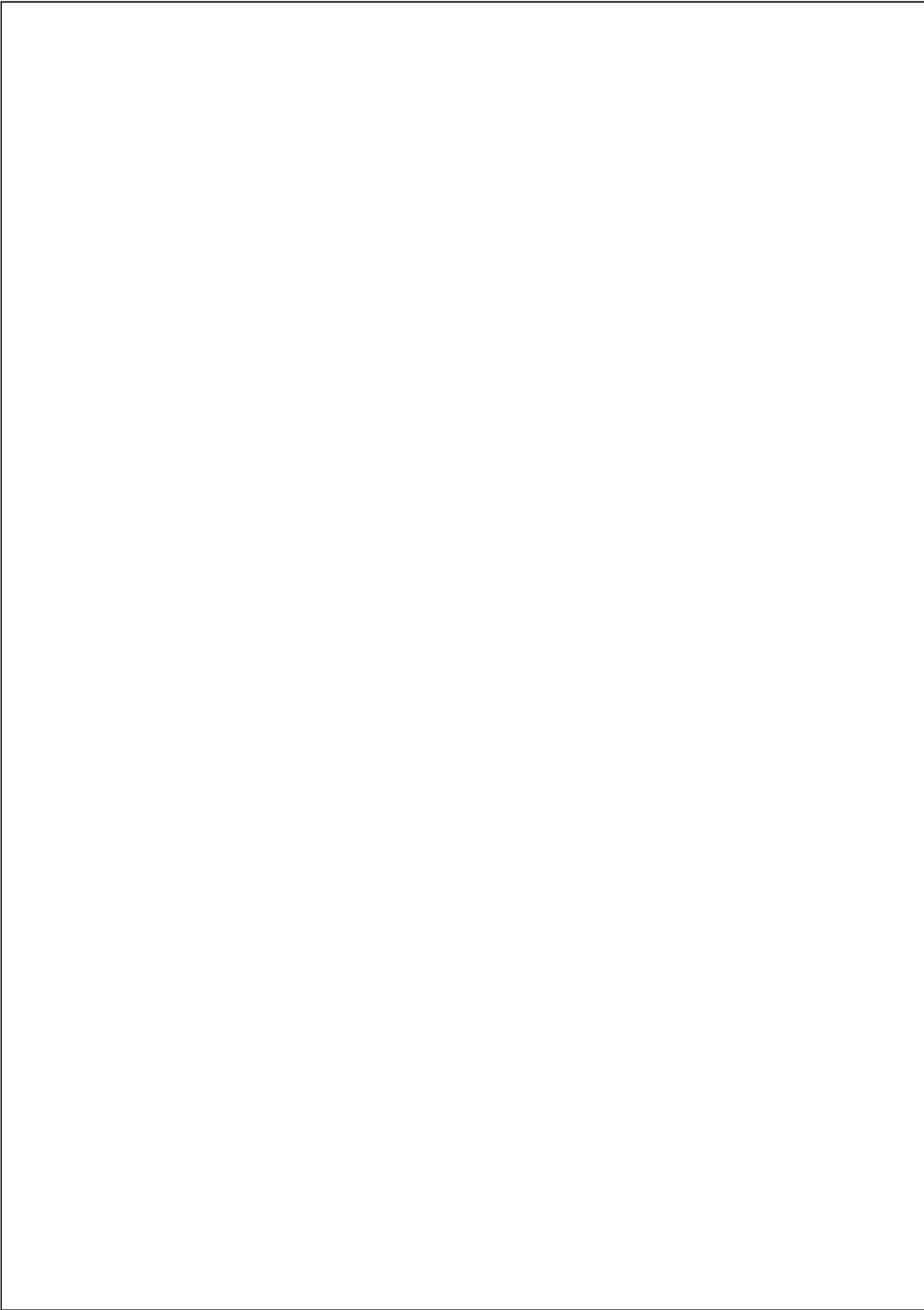
Conclusion: Construction engineering is a great course as after all the years to be done, you have a wild field full of opportunities.

Article title: What Is Construction Engineering? Salary and Careers | Ohio University
Website title: Ohio University
URL: <https://onlinemasters.ohio.edu/blog/what-is-construction-engineering/>

Author Go Team
Article title: Construction Is a Career Like No Other
Website title: Go Construct
URL: <https://www.goconstruct.org/>

<http://www.onlineschoolsreport.com/importanceofconstructionengineering>

<http://www.bolton.ac.uk/constructionengineeringinthesoceity>



Assignment

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

40 / 100

Instructor

No references

You need to improve on you paraphrasing and your writing style. Picture are not necessary needed.

The structure of you work is not in line with I have provided you with which can be found at the top of you assignment.

In general poor presentation of ideas. When next adhere to instructions.

PAGE 1

PAGE 2



Comment 1

Is this your work?

PAGE 3



Comment 2

Please improve your paraphrasing

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8
