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Course:	Diploma in Construction Management
Assignment NO:	1

Answer for Question 1

- (i) Construction industry is different from other industries because of the essential roles it plays in growth of economy, it serves as the basic infrastructure facility which is required in the production of every other industries process. Construction is a raw-material that must be input by every other industry. An Increase in the level of construction activities will increase the gross domestic product of the economy and possess some unique feature which differs from the other industry, these includes :complexity, uniqueness, mobility of facilities, multiplicity of agencies, organization, and productivity with is at a very low level compare to other industries.
- (ii) The rate of accidents is higher in construction industries than other industry because the execution of construction activities is through the process of working on temporary structure and semi-finished stages. The rapidly changing character of worksites, uncertainties of the natural environment and fluctuating level of heat, light and sound which is of contrast with the working condition of other industries also makes the construction industry more hazardous thereby makes the accident rate higher than other industries.
- (iii) Mid-level management comprises personnel who report to the top management and their main duties include the interpretation of policies and objectives laid down by the top management regarding area of operation or specialization. They operate and specialize in area of concreting works, pavement, drainage; they may also deal with independent portion of work on a large work area such as spillways and canals; mid-level management in some organization may sometimes made up of more than one level.
- (iv) The first line manager is the lowest level of the management rank and deals with the non-managerial employee by obtaining instruction on procedure and condition of implementation from the middle level management. They make sure the workers allocated to them are productive and deliver task as per constraint (schedule, cost, quality and risk) by given instruction and explaining the assignment; motivating the work to produce even beyond their individual effort.

- (v) Classification of Basic activities of a construction project can be put into four phases namely the:
- a. Concept phase: This is a phase that put the construction structure on the basis of the need or purpose of the user. It is the phase that determine what is actually needed to be put in place.
 - b. Preliminary phase: This stage of evaluation and analysis of the potential of the proposed project to reach a clear realistic of the projects, after which the available alternative has been compared.
 - c. Detailed survey: This is when the proposed structure is created on paper, design and drawing in detail of the selected drawing of the selected one among the preliminary.
 - d. Construction phase: This is the reality phase where all the proposal created in on paper and drawing is actually being implemented on the field through the use of various resources.

Answer for Question 2

WHAT MAKES EACH CONSTRUCTION PROJECT A UNIQUE PROJECT

A Project can be defined as a planned set of interrelated tasks to be executed over a fixed period and within certain cost and other limitations and construction project nature indicate a define beginning and end, which can be reached when the project objective have been achieved or when the project is terminated because it objective will not or cannot be meet when the need for the project no longer exist , construction as a product of project is always unique even when there is repetitive element in two or more structural infrastructure deliverables.

The fundamental uniqueness may not change even when there is repetition, project work on office buildings may be constructed with same & similar material and structure but the location and design may serve as a unique factor, different circumstance, differ contractor, different event as well as different risk are encounter during the execution.

The difference factor also extend to the characteristics of the environment which include the different atmospheric condition, temperature, surrounding etc., with reference to other factors like the technological level which have to be considered in the sense that multiple of resources are impact through different process around variable circumstance of human decision and technological application

Due to the uniqueness of each construction project, the following measure have to be taken:

1. There should be arrangement for change management that can arise as there could be virtually difficulty in examining what would have if alternative decision where taken due to large change in working climate, condition and environment and technology level.
2. The level of the uniqueness is as sensitive that it requires very high order of supervision level and quality, to an extent of having a separate party for the supervision with responsibility including verification and control of scope, control and assurance of quality, identification, evaluation, monitor and control of risk, this unique character prone a formal documentation standard and brings every communication and transaction into legitimate and contractual terms and condition.

Answer for Question 3

SPECIFIC CHARACTERISTIC OF CONSTRUCTION INDUSTRY WHICH MAKE IT DIFFERENCE FROM OTHER INDUSTRY

Construction industry plays a very important role in the growth of economy as basic infrastructure facilities. This makes the industry to require huge investment of resources and to make it productive and effective, the management requires a very innovative, creative and efficient organizational structure to manage the technological, financial and human resources within the constraint of time, cost, quality and availability

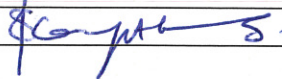
The construction industry possess some feature that makes it differ from other industry, this are;

1. **Complexity** in term of high technology a typical construction project is characterized by consumption of several types of material, tools, plant and machinery, human resources, contracting agencies etc. also it involves highly interactive and complex environment where thousands of activities are carried out simultaneously, some in sequence or at random to attain the project goal within a constrained time and cost. Therefore this makes construction project more complex than any other production process, manufacturing or service industry.
2. **Uniqueness** is another characteristic of construction industry that makes a level of difference from every other industry in the sense that every construction projects is of a unique inputs, process and outputs thus vastly different in nature and type.
3. **Mobility of Facilities** : Construction industry work environment facility layout cannot be optimally designed, provided and controlled, since it involve both horizontal and vertical movement of input material, human resources, equipment which are continuously change at the same spot, construction is produced and consume at the same location, Construction production is stationary, involving movement of construction stages to another all of which are operated an undertaken under different control.
4. **Multiplicity of Agencies:** Construction industries also involve activities with many regulatory agencies that control environmental built and construction, unlike some other industry, independent agencies of government, local council, corporation and much incorporation and ministry department inspect the construction site to see the compliance in place.
5. **Organization:** The organization systems of construction industry is always of contractual business right unlike every other industry, construction sometimes involve at least 10 to 1000 parties for the production of a specific project, starting from the pre-contract stage to post-contact stage, everything deal in construction production is contractual even the management and labor relation, unlike other industry construction industry have a complex inter-organizational contractual interaction involving several participation organization directly or indirectly. Other factor is the activities of construction which is total different from production process of every other industry, construction industry can be grouped into three stages namely designing and planning; construction execution and inspection and supervision.

6. Finance: The financial structure of construction industry is highly different from other industries and can be classified into investment in permanent (fixed) assets; short-term finance to supply for running of construction daily activities; investment in future which include the human resources and finally the overhead cost. However construction projects is often than not carried out on credit and mobilization advances, bank loans against securities. 7. Management: Management system of construction are far from the head office and required widespread delegation of decision making power through all the level of organization right up to operative level. 8. Productivity: The production rate of construction industry is at very low level as compare to other industry because the supply and characteristics theory. The supply characteristics includes the immobility of construction project, less than optional working condition and diversity of product. Demand for higher quality of human resources is also need for wide range aspect to be taken. But the most important reason is the scarcity of trained and skilled human resource at a level of management from CEO to operatives. 9. Safety Hazards: Construction projects are highly hazardous and prone to a fatal and severe consequence accident, construction project execution are performed from temporary structure which are semi-finished stage unlike other industries whose work process are safely designed and permanently constructed and; construction work are continuously transforming the machinery and equipment (facilities) layout; and the rapidly changing character of work site ,uncertainties of the natural environment make it more hazardous than other industry. With reference to the above stated features, it clearly shows that construction industry is different from other industries.
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Student Statement:

By submitting this assignment, I confirm that this is my own work.

Student Signature		Date	21-06-2014
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Total Marks	
Marks Obtained	
Percentage / Grade	