

IQRA NATIONAL UNIVERSITY

SESSIONAL ASSIGNMENT

Construction management

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(1) Problem # 1 :

What is Project Life-cycle explain briefly with diagram?

Ans: The Project manager and project team have one shared goal: to carry out the work of the project for the purpose of meeting the project's objectives. Every project has a beginning, a middle period during which activities move the project toward completion, and an ending (either successful or unsuccessful).

A standard project typically has the following four major phases (each with its own agenda of

- 1) The Initiation
- 2) The Planning Phase
- 3) The Execution Phase
- 4) The Termination Phase.



## 1) The Initiation Phase:

The initiation Phase aims to define and authorize the project. The project manager takes the given information and creates a project charter. The project charter authorizes the project and documents the primary requirements for the project. It includes information such as

- Project's purpose, vision, and mission.
- Measurable objectives and success criteria.
- Name and authority of the project sponsor.
- Concerned stakeholders



## 2) The planning phase:

The purpose of this phase is to lay down a detailed strategy of how the project has to be performed and how to make it a success.

Project planning consists of two parts:

- Strategic planning
- Implementation planning.

In strategic planning the overall approach to the project is developed. In implementation planning, the ways to apply those decisions are sought.



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### The Execution phase:

In this phase, the decisions and activities defined during the planning phase are implemented. During this phase, the project manager has to supervise the project and prevent any errors from taking place. This process is also termed as monitoring and controlling. After satisfaction from the customer, sponsor, and stakeholders end, he takes the process to the next step.

4)

### The Termination phase:

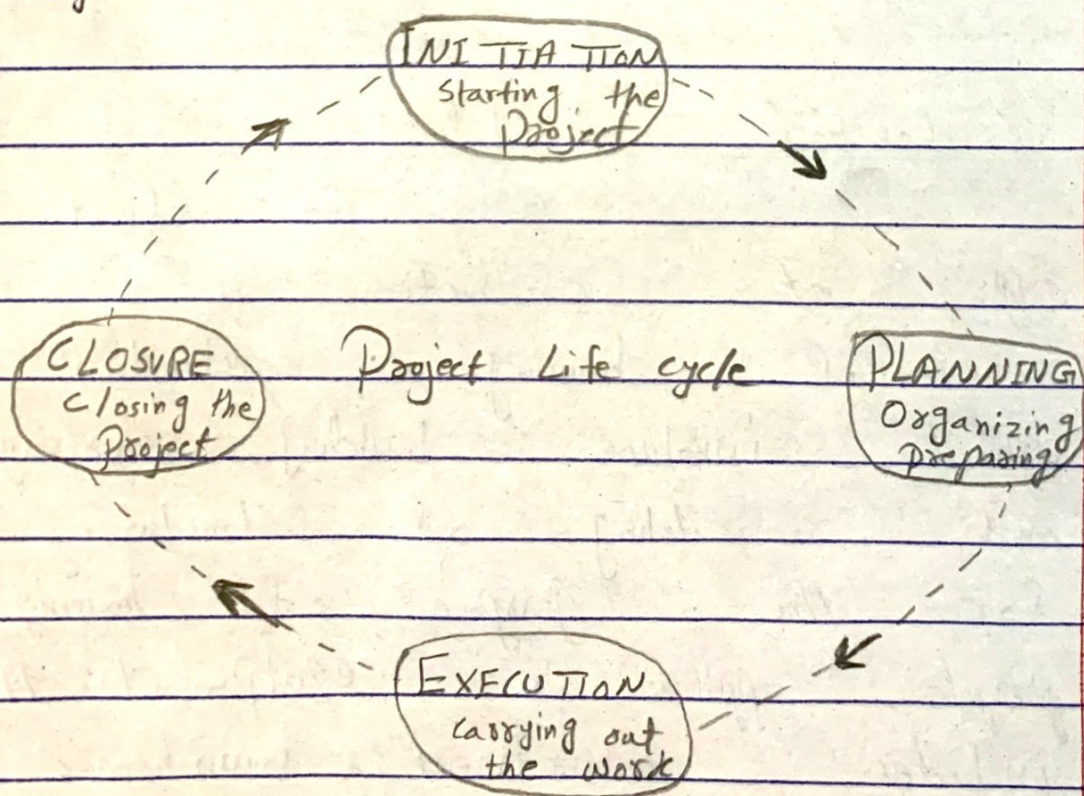
This is the last phase of any project, and it marks the official closure of the project.

This general lifecycle structure is used when dealing with upper management or



other people less familiar with the project. Some people might confuse it with the project management process groups, but the latter contains activities specific to the project. The project lifecycle, on the other hand, is independent of the life cycle of the particular outcome of the project.

Diagram:





2) Problem # 2 :

Define and explain briefly major types of construction projects?

Ans: Types of Construction

There are four major types of construction include residential building, institutional and commercial building, specialized industrial construction, infrastructure and heavy construction.

1) Residential Building:

The first type of construction is residential housing construction which involves building, repairing, and remodeling of structures for the purpose of housing people, supplies, or equipment. It includes apartments, town homes, condos, nursing homes, dormitories, etc.



Also, garages and outbuildings like utility sheds are considered as residential construction. As mentioned above, residential construction also involves repair and installation of utilities like water and electricity around the structure.

## 2) Institutional and Commercial Building:

This type of construction encompasses projects schools, sports arenas, shopping centers, hospitals, stadiums, retail stores, and skyscrapers. Like the residential housing construction institutional and commercial building involves both putting up of new structures and repair and maintenance of existing structures. Typically, a project like a retail store is usually commissioned by a



company or private owner.  
Other projects such as stadiums, schools, and medical facilities are often paid for and managed by both the local and national government.

### 3) Specialized Industrial Construction.

The third type of construction is specialized industrial construction which entails building structures that require a high level of specialization as well as technical skills in planning, construction, and design. Typically, this type of construction is carried out by for-profit or industrial corporations. For instance, a chemical industry can build oil refineries, and power generation industry can build structures.



#### 4) Infrastructure and Heavy Construction.

The last type of construction is infrastructure and heavy construction which encompasses building and upgrading of railways, communications, and roads, railways to the surroundings of a city or existing building construction. This type of construction usually done due to the public interest and is often executed by government agencies and large private corporations.

Some other projects that fall under this type of construction include tunnels, bridges, highways, transit systems, drainage systems, and pipelines.