

Name

Mansoor Rashid

ID

7698

Section

A

Subject

Construction management

Instructor

Dr. Zeeshan Ahmad

Question No 1:-

What is Project Life-Cycle explain briefly with diagram?

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

A standard project typically has the following four phases.

- ① Initiation
- ② Planning
- ③ Implementation
- ④ Closure

These phases represent the path of project taken from the beginning to its end and are generally referred to as the project life-cycle.

① Initiation:-

During the first of these phases, the Initiation phase, the project objective or need is identified this can be a business problem or opportunity. An appropriate response to the need is documented in a business

case with recommended solution option. A feasible study is conducted to investigate whether each option addresses the project objective and final recommended solution is determined.

Once the recommended solution is approved a project is initiated to deliver the approved solution and a project manager is appointed. and project team begins to take shape. Approval is sought by project manager to move on to the detailed planning phase.

Planning phase

The next phase the planning phase is where the project solution is further developed in as much detail as possible and the steps necessary to meet the project's objective are planned. In this step the team identified ~~along~~ all the work to be done. The project tasks and resource requirements are identified along with the strategy for ~~their~~ producing them. A project plan is created outlining all activities, task dependencies and timeframes. The project manager prepares project budget. The budget is used to monitor and control cost expenditure during the project implementation.

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Once the project team are identified the work prepared schedule and estimated the costs the three fundamental components of planning process are complete.

Finally you will want to document a quality plan, providing quality target assurance and control measure along with the acceptance plan. At this time the project would have been planned in detail and is ready to be executed.

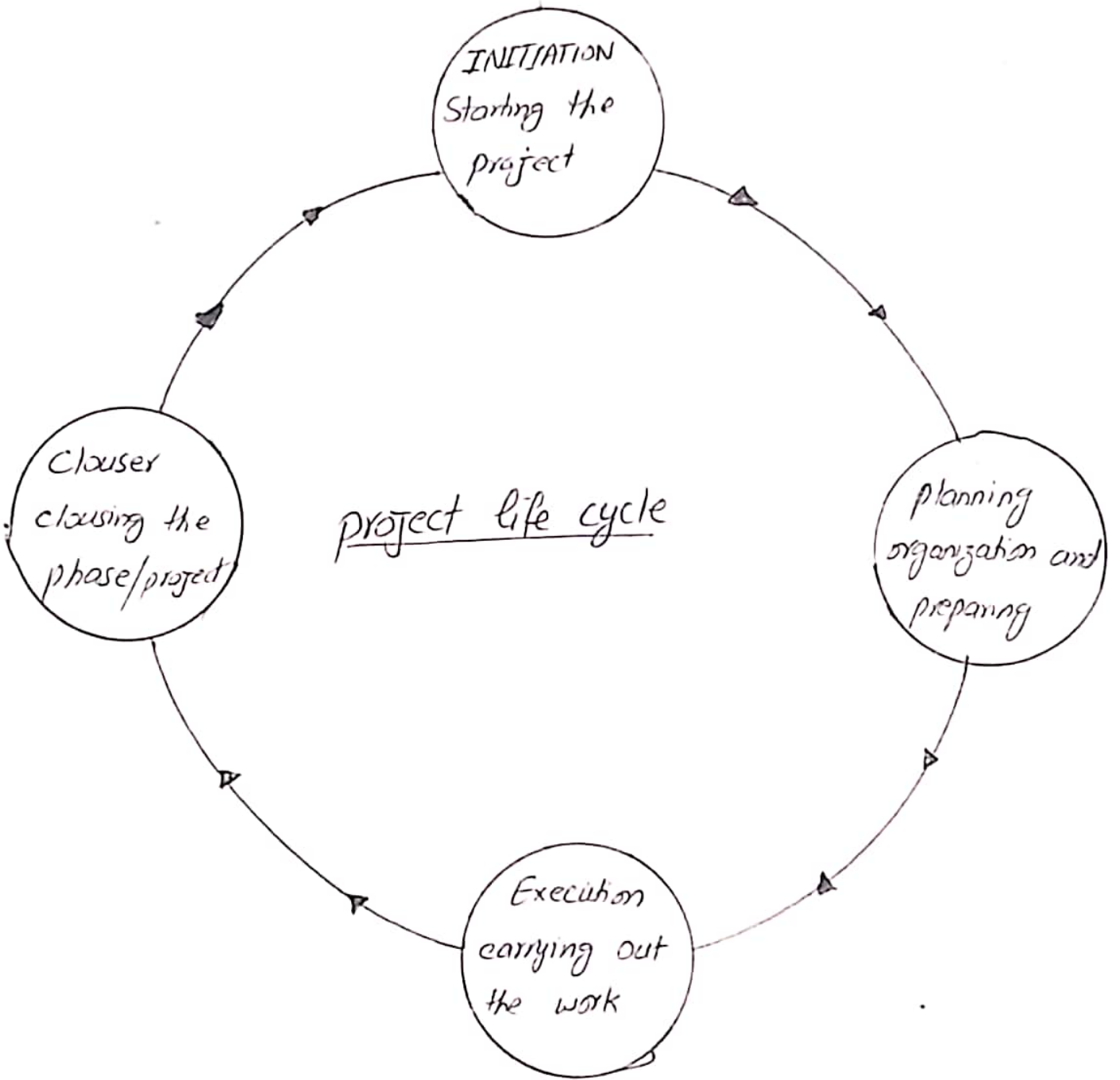
Implementation phase:-

During the third phase the implementation phase the project is plan is put into motion and the work of the project is performed. It is important to maintain control and communicate as needed during implementation. During project implementation people are carrying out the task and progress information is being reported through regular team meeting. The project manager uses the information to maintain control over the direction of project by comparing the progress reports with project plan to measure the performance of the project activities and take the corrective action as needed. Each project deliverable produced should be revised for quality and measured against the acceptance criteria.

Once all of the deliverable has been produced and the customer has accepted the final solution. the project is ready for closure.

Closing phase:-

During the final closure or completion phase the emphasis is on releasing the final deliverable to the customer handing over project documentation to the business terminating supplier contracts releasing project resources. and communicating the closure of the project to all stakeholders. The last remaining step is to conduct Lesson-Learned studies to examine what went and what didnot. through this type of analysis the wisdom of experience is transferred back to the project organization which will help future project teams.



Construction:- Construction is a process which consist of assembling or building Infrastructure. it includes all work and material required for construction of finished structure. This also include site foundations, preparations, electrical work, mechanical work, and any work required to complete project.

Types of construction project:-

- ① Residential building
- ② Commercial and Institutional building
- ③ Industrial Construction
- ④ Infrastructure and Heavy Construction

① Residential building. These project include townhouses, condominiums, apartments, cottage, and subdivision. Residential construction involves building, repairing and remodeling of structure for the purpose of housing people. it also involves repair and installation of utilities like water, electricity around the structure. The design is done by engineers and architects and the constructor itself.

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executed by construction companies who hire it.

① Institutional and commercial Building:-

This type of construction encompasses project schools sports arenas, shopping center, hospitals, retail stores etc. It involves both putting up the new structure and repair and maintenance of existing structure. Other projects such as stadium schools and medical facilities are often paid for and managed by both local and national government.

Industrial construction:- The ^{third} type of construction is specialized industrial construction which entails building structure that require a high level of specialization as well as an technical skills in planning construction and design. Typically this type of construction is carried out by for profit or industrial corporation for instance a chemical industry can build oil refineries and power generation. Industry can build structure nuclear power plant and hydroelectric power plants.

Infrastructure construction. This last type of construction is Infrastructure and heavy construction which encompasses building and upgrading of railways communication and roads railways to the surrounding of a city or existing building construction. This type of construction usually done due to public interest. It also include tunnels bridges, highways, transit systems, and pipelines.