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SECTION

"B"

SUBJECT

CONSTRUCTION MANAGEMENT

Qno: Project life cycle with  
Diagram?

Project life cycle: A standard project typically has the following four major phases: initial, planning, implementation and closure taken together, these phases represent the path, a project takes from the beginning to its end and are generally referred to the project life cycle.

⇒ Following are phases of project life cycle.

- 1) Initiation
- 2) Planning
- 3) Execution
- 4) Closure

Initiation :- Firstly you need to identify a business need, problem, or opportunity and brainstorm ways that your team can meet this need. So, you figure out an objective for your project, determine whether the project is feasible, and identify major deliverables for the project.

Steps :-

- Undertaking a feasibility study
- ⇒ Identifying scope
- ⇒ Identifying deliverables
- ⇒ Identifying stakeholders
- develop a business case
- develop a statement of work.

Planning :- Once the project is approved to move forward based on your

Business case, statement of work or project initiation document, you move into the planning phase.

During this phase of project management life cycle you breakdown the larger project into smaller tasks, build your team, and prepare a schedule for completion assignments. Create smaller goal within larger project making sure each is achievable within the time frame smaller goal should have a high potential for success.

## Steps For Project Planning :

- ⇒ Creating a project plan.
- ⇒ Creating workflow diagram.
- ⇒ Estimating budget and creating a financial plan.

⇒ Creating Reserve.

⇒ Anticipating risk and potential quality road blocks.

⇒ Holding a project handoff meeting.

Execution You've received business

approval developed a plan and built

your team. Now it's time to get to work

the Execution phase turns your plan into

action. the project manager life cycle is

to keep work on track, organize team

members, manage time lines, and make sure

the work is done according to original

Plan.

Step for Execution:

Creating tasks and organizing workflows

Briefing team members on task

communicating with team member

monitoring quality of work

managing budget.

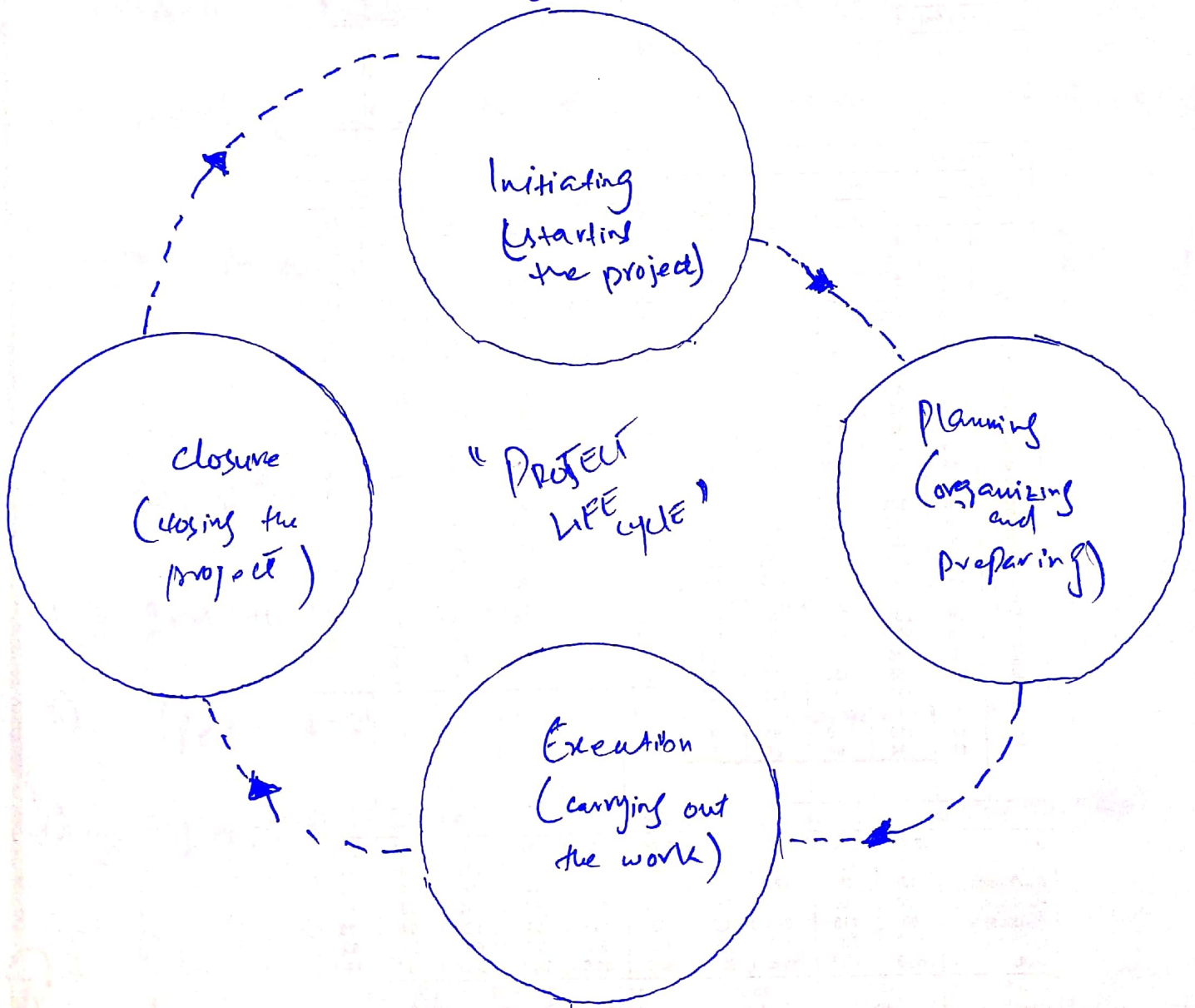
Closure: Once your team has completed work on a project, you enter the closure phase you provide final deliverable release project resource, and determine success of project. Just project manager job is done there are still important thing to do including evaluating what did and did not work with project.

## Steps for Closure

- Analysing project performance.
- Analysing team performance.
- Documenting project closure

→ Conducting post-implementation Review

→ Accounting for used and unused budget



## Qno 2 Construction Project :-

→ A Construction Project sometimes just referred to as a project, is the organized process of constructing, renovating, refurbishing etc building structure or infrastructure.

→ Following are four major types of constructing projects.

- 1) Residential building
- 2) Institutional and commercial building.
- 3) Specialized industrial construction.
- 4) Infrastructure and Heavy construction.

Residential Building: The first type of

construction is residential housing construction which involves building, repairing and remodeling of structure for the purpose of housing people, supplies or equipment. It includes



apartment townhouses, condos, nursing homes, dormitories, etc. also garages and out building like utility sheds are considered as residential constructions. As mentioned above residential construction also involves repairing and installation of utilities like water and electricity around the structure.

→ The design on residential housing project is usually done by engineers and architects and the construction itself executed by construction companies, who hire sub contractors.

## Institutional & Commercial Building:

This type of construction encompasses project schools, sports, arenas, shopping center, hospital, stadium, skyscrapers, like the residential housing construction, institutional and commercial building involves both putting up new structure and repairs and

maintenance of existing structure,  
typically a project like store is  
usually commissioned by a company  
or private owner other projects such as,  
Stadium, school are often paid for  
and managed by both local and  
national government.

## Specialized Industrial Construction;

Third type of construction is specialized  
Industrial construction which entails building  
structure that requires a high level of  
specialized as well as technical skill in  
planning construction and design typically,  
this phase of construction carried out for  
profit or industrial corporation for building  
structure chemical industry can build up

oil refineries and power generation  
nuclear power plant and hydro electric  
power plant which are examples of  
Specialized industrial construction.

## Infra Structure by Heavy Construction.

The last type of construction is infrastructure  
and heavy construction which encompasses  
building and upgrading of railways communication  
and road, railways to the surrounding  
of city or existing building construction  
This type construction usually done due the  
public interest and is often executed by  
Government agencies and large private corporation.

Some other projects that fall under  
this type construction include tunnels, bridges,  
highway transit system, drainage system and  
pipelines.