

SUBMITTED TO: Engr. Zeeshan Ahad

Submitted By: M. Abdullah Khan

Student ID: 7720

SECTION : B

Subject : CONSTRUCTION
MANAGEMENT

Question No# 1

What is Project life-cycle explain briefly with diagram?

“Project life cycle”

A standard project typically has the following four major phases: Initial Planning, Implementation and closure. Taken together, these phases from the beginning to its end are generally referred to as the project life cycle.

Following are the phases of Project life cycle

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

INITIATION:-

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

"STEPS FOR INITIATION"

- Under taking a feasibility study
- Identifying scope
- Identifying deliverable
- Identifying project stakeholders
- Developing a business case.
- Developing 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 the project management life cycle, you break down the large project into smaller tasks, build your team and prepare a schedule for the completion. assignment create smaller goals within the budget project making sure the schedule is achievable with the

the time frame, smaller goal should have a high potential for success.

Step for Project planning

- ⇒ Creating a Project Plan.
- ⇒ Creating workflow diagram.
- ⇒ Estimating budget and creating a financial plan.
- ⇒ Gathering Resources.
- ⇒ Anticipating Risk & potential quality road-blocks
- ⇒ Modeling a project schedule meeting.

"SANITARY FIXTURES"

Sanitary fixtures are installed in different areas. Bathtubs, washstands, shower, sumps, traps and bidets are installed in bathrooms washrooms and shower rooms. Toilet bowls, lobby pans and urinal of various types whether equipped with flush tanks or taps are installed in lavatories washes, sinks and drains are installed in kitchens.

"SANITARY TRAPS"

A trap is a device which is used to prevent sewer gases from entering the building. The traps are located

below or within a Plumbing fixture and retain small amount of water. The retaining water creates a water seal which stops foul gases going back to the building from drain pipes. Therefore all Plumbing fixtures such as sinks, washbasins, bathtub and toilets etc are equipped with traps. This article tells you the features of traps various types and water seal.

"CROSS Connection"

A connection in a Plumbing installation through which water may possibly pass to or come in contact with another part (as a water inlet in a bathtub that may at times be below the water level of the top).

Back Siphonage control.

Back siphonage is one type of backflow. (Back Siphonage) = The following backflow, contaminated or polluted water from a Plumbing fixture or vessel into potable water supply, because of negative pressure in the pipe, branch, any part of the piping system other than the main riser or stack.

Execution

You've received business approved 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's life cycle is to keep work on track, organize team members, manage time lines and make sure the work is done according to the original plan.

Step for the Execution

Creating tasks and organizing work flows.

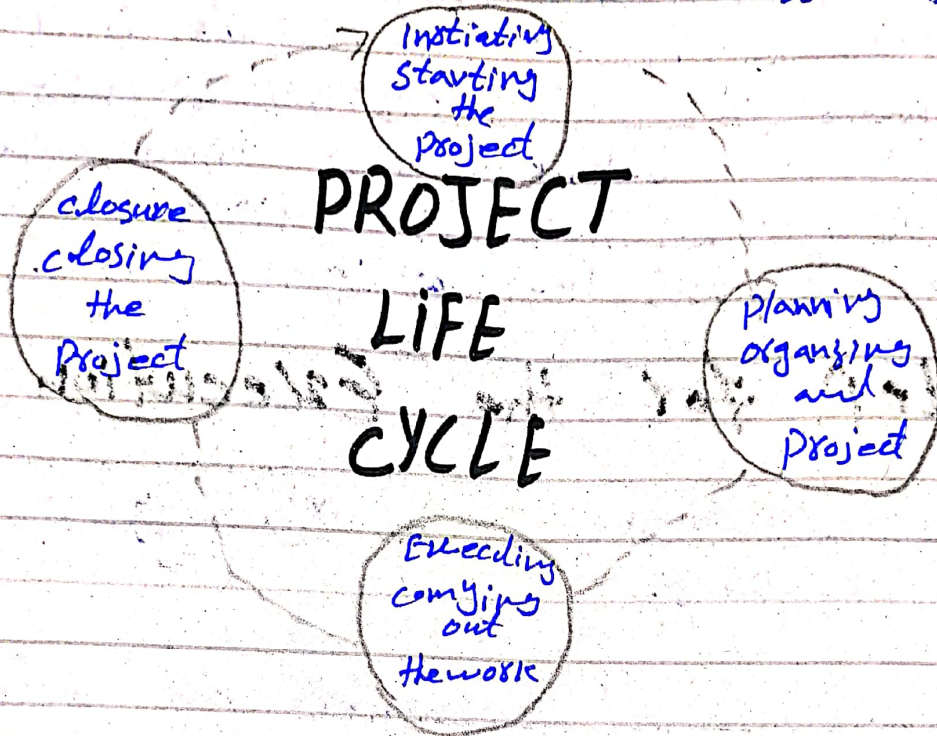
Briefing team members on tasks communicating with team members monitoring quality of work managing budget.

CLOSURE

once your team has completed work on a project, you enter the closure phase. the closure phase you provide final deliverables release project resources and determine the success of the project. Just project manager job is done. There are still important things to do including evaluating what did and did not work with the project.

Step for Closure

- Analyzing Project Performance
- Analyzing team performance
- Documenting project closure
- Liquidating Part Implementation Resources.
- Accounting for used and unneeded budget



Question No # 2

Define & explain major types of construction project?

Construction Project

- ⇒ A construction project some time just referred to as a project is the organised process of constructing renovating - refurbishing etc building structure or infra-structure.
- ⇒ Following are the four major types of constructing project.

- (1) Residential Building.
- 2 Institutional & commercial Building
- 3 Specialized industrial construction
- (4) Infrastructure and heavy construction

"Residential Building"

The first type of construction is residential having construction which involves building, repairing and remodeling of structure for the purpose of housing people supplies of equipment. It makes edge

apartment townhouses, condos,
nursing homes dormitories etc also
garages and out building like
utility shed are considered as
residential constructions. As measured
a base residential construction also
moves repairing and installation
of utilities like water as electricity
around the structure.

The design of residential
having Project is usually done by
engineers and architects and the
construction itself executed by
construction companies, who hire
sub contractor.

INSTITUTIONAL & COMMERCIAL

BUILDINGS:

This type of construction encompasses Project schools, Sport arenas, Shopping centres, hospital, stadium, retail, stores and sky-scraper, 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 Project

Such as Stadium (11) schools are often Paired for and managed by both the local and national Government.

SPECIALIZED INDUSTRIAL

CONSTRUCTION:

The third type of construction is specialized Industrial Construction which entails building structure that requires a high level of specialized as well as technical skills in Planning construction and design. Typically this type of

construction carried out 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 specialised industrial
construction.

INFRASTRUCTURE AND

HEAVY CONSTRUCTION:

The last type of construction is
infrastructure and heavy construction
which encompass building and
upgrading of railways - commu-
-nication and road railway to
the surroundings of a city or
existing building construction. This
type of construction is usually