

Assignment # 1.

Name : M. Asif

ID # : 7734

Section : B

Subject : Construction
Management

Instructor :- Engr. M. Zeeshan
Ahad

Date :- 2nd July 2020

What is Project:-

→ Projects as defined in the PMBOK Guide, is a "temporary endeavor undertaken to create a unique product, service or result."

→ All projects vary in complexity but they all follow similar life cycles.

→ All projects have deliverables (meaning they always produce something.)

→ Project examples:

- New product development
- Building renovation
- Wedding
- Dinner party.

Project life cycle :-

→ Project life cycle is a series of phases of a project from initiation to completion.

→ The life cycle gives a practical approach to problem solving applied to all aspects of a project.

→ Phases in a project life cycle encompasses sequential and overlapping phases.

→ A project life cycle typically has 4 major phases:

→ Initiation phase

→ Planning phase

→ Implementation/Execution phase

→ Closure phase.

Initiation Phase:-

The project need is identified in the initiation phase. It signals the start of a project.

Planning Phase:-

This phase is where the project solution is further explored and the steps necessary to achieve their goals.

Implementation phase:-

The project plan is put into action. This phase is when people are carrying out the tasks of their plan.

Closure phase:-

This phase is the final closing of all project processes and handing over deliverable to the customer.

Initiation phase:

→ The first phase explore the project concept.

→ scope is defined during this phase.

→ Feasibility studies are made in order to identify if there is a business need and justification to pursue the project. Project charter is developed for approval.

→ This is the phase that the project team is assembled and the project manager is identified.

Planning phase:-

This phase further details the scope of the project.

- Tasks and resources are identified and assigned during this phase.
- Project manager coordinates the preparation of the schedule and project budget.
- Risks are identified ahead to anticipate any project threats.
- Communications plan is created in order to ensure everyone is constantly informed of project status.

Implementation phase:-

This phase is where the work outlined in the project plan is performed.

→ This phase consumed the most resources and energy.

→ constant and close monitoring of the work should be done to ensure efficiency of the project execution.

→ Status reports are important for all stakeholders involved.

→ Deliverables are measured against the set metrics to ensure quality is acceptable.

Closure phase:-

This is the last phase of the project life cycle and involves handing over final deliverable to the customer.

→ Contracts are properly terminated for equipment, vendors and staff.

→ All stakeholders are to be informed of project closure.

→ This is when the team reviews the overall project and identify lessons learned for future projects.

Major types of construction projects:-

1) Residential construction:-

Residential construction projects incorporate houses, townhouses, lofts, apartments, suites, bungalows etc.

The housing outlines are by and large done by planners and engineers and the development is executed by manufacturers who contract subcontractors for basic electrical, mechanical and other claims to frame work.

2) Buildings:-

Building development is may be the most famous kind of development ventures. It is the way

toward adding structure to genuine property. A large portion of the undertakings are room increments and little remodels.

3) Institutional & commercial :-

Institutional and business buildings development covers an extraordinary assortment of venture sorts and sizes. For example, healing facilities, schools and colleges, sports offices and stadiums, expensive strip malls and retail chain stores, light assembling plants and distribution centers and high rises for work-places and inns.

4) Industrial:-

Industrial construction is the only a small part of the whole construction industry nevertheless. it is a very important part of the industry.

The projects are generally owned by big, for-profit industrial corporations such as manufacturing, power generation, medicine, petroleum etc.

5) Highway Construction:-

Highway construction involves the construction alteration or repair of roads, highways, streets, alleys, ~~to~~ runways, paths, parking areas etc.

6). Heavy Constructions:-

Overwhelming development extends more often than not include ventures that are not approximately named either "building" or "roadway".