

Apollo Institute of Engineering and Technology

Assignments

Branch: Civil Engineering

Subject: Construction Management (2180611)

Assignment No: 1

Introduction

1. Define Project & Project Management. What are the different phases through which a construction project passes?
2. Why is construction project management needed?
3. Explain Planning, Scheduling & Controlling as function of construction management?

Assignment No: 2

Project Organization

1. Why is structuring required for a construction company? Discuss different structures of a construction company.
2. Briefly explain organizing for project management.
3. Discuss strategies for enhancing the performance of a project manager.

Assignment No: 3

Construction Economics

1. Explain types of Economic Decision Making
2. Briefly explain Evaluating Alternatives by Equivalence.

Assignment No: 4

Construction Planning

1. Differentiate between Critical Path Method and Program Evaluation & Review Technique

2. What is work breakdown structure in construction project? Draw work breakdown structure of a residential building project.
3. What is Gantt bar chart? Explain with the help of suitable example. Give limitations of the Gantt bar chart.
4. Discuss various network rules. Also explain Fulkerson's rules for numbering the events of a network.
5. Explain line of balance technique (LOB).

CPM EXAMPLE

Assignment No: 5

Project Scheduling and Resource Leveling

1. What do you mean by project scheduling and why is it important?
2. Discuss time-cost trade-off.

Assignment No: 6

Construction Equipment Management

1. Briefly explain Sensitivity Analysis.
2. Briefly explain Breakeven Analysis.

Assignment No: 7

Construction Accounts Management

1. Discuss the principles of accounting.
2. Write short note on profit and loss account.
3. Write limitations of Accounting Process.

Assignment No: 8

Construction Material Management

1. What are the different functions of material management?
2. Discuss different inventory-control policies.

Assignment No: 9

Construction Project Cost and Value Management

1. What are the different steps taken for project cost management? Discuss in brief.
2. How is the cost statement prepared? Discuss its importance in brief.
3. What is Value Engineering? Describe various stages of the Project Value Engineering.

Assignment No: 10

Construction Quality Management

1. Discuss inspection, quality control and quality assurance in a construction project.
2. Discuss the contribution of daming, juran and Crosby in the field of quality management.
3. Estimate the quality cost under different heads.

Assignment No: 11

Construction Safety Management

1. Write short note on Unsafe Conditions.
2. Enlist important components of Safety Management System. Explain any three.

Assignment No: 12

Factors for Success of a Construction Project

1. Write short note on Project Performance Measurement.
2. Discuss in detail Criteria for Project Performance Evaluation.
3. Explain Project Performance Attributes.