

# What is Project Management in Construction?

## Worksheet

Construction project management coordinates planning, budgeting, scheduling, resource allocation and quality control to deliver a project on time, within budget and to agreed quality standards.

## Questions

1. Project management includes

- A) only engineering design
- B) scheduling, budgeting, quality control and communication
- C) only cost accounting
- D) only labor hiring

2. The triple constraint is

- A) materials, labor, equipment
- B) time, cost, quality
- C) permits, insurance, contracts
- D) design, procurement, execution

3. What is a critical path in scheduling?

- A) the fastest route to the site
- B) the sequence of tasks that determines project duration
- C) the budget allocation path
- D) the safety evacuation route

4. PM stakeholders include

- A) only the project manager
- B) owner, contractor, consultants, suppliers, regulators, community
- C) only engineers
- D) only the client

5. A 24-month office building project. How does PM manage the schedule?

6. Project budget is 5 million. Concrete cost doubled due to market prices. How does PM respond?

7. Quality issue found: rebar spacing not per design. PM discovers during mid-project inspection. Action?

8. Define: What is construction project management?

9. Define: Define the triple constraint in PM.

10. Define: What is project scope?

## Answer Key

1. B) scheduling, budgeting, quality control and communication - PM integrates planning, resource, time and cost management from start to finish.
2. B) time, cost, quality - The three interdependent factors: improving one often costs another.
3. B) the sequence of tasks that determines project duration - Critical path is the longest chain of dependent tasks; delay in any critical task delays the entire project.
4. B) owner, contractor, consultants, suppliers, regulators, community - Stakeholders are all parties interested in or affected by the project.
5. Breakdown project into phases: site prep (2 mo), foundation (3 mo), structural frame (4 mo), MEP (5 mo), finishes (6 mo), handover (4 mo). Track progress weekly, re-forecast completion date, manage delays by expediting resources or adjusting scope.
6. Identify the cost overrun: +200k for concrete. Options: reduce scope (different flooring), negotiate with supplier, or request budget approval. PM forecasts final cost, reports variance to stakeholders, implements recovery plan.
7. Stop work, investigate non-conformance, determine risk to structural integrity. Remedy: rework section or re-engineer, document lessons learned, tighten inspection protocol to prevent recurrence.
8. The discipline of planning, organizing and controlling resources to deliver a construction project on time, within budget and to quality standards.
9. Time, cost and quality - the three interdependent factors. Changing one affects the others.
10. The defined deliverables: buildings, structures, systems and services included in (or excluded from) the project.

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