

PROGRAM SEMINAR C - PART III

Cost Engineering & Construction Management

Description

This seminar reviews the problems of designs, construction, and construction management (CM) relating to money and performance and provides practical solutions to these problems. Projects of different types ranging from a large building to an international airport are discussed to demonstrate successful construction management techniques. The seminar will be a thought-provoking and challenging experience for construction personnel who are looking for new ideas and tools for managing construction projects more effectively.

Benefits to Attendees

Familiarization with a:

- Choice of corrective action for a typical list of CM problems.
- Eleven guide points to successful CM.
- An understanding of CM concepts and tools.

Who Should Attend

Project managers, construction managers, contractors, estimators, and other construction personnel working for owners, prime contractors, subcontractors who manage construction projects.

Special Format

A balanced combination of lectures and formal discussions to facilitate your learning.

Program Schedule

Day 1 - (9:00 a.m. - 1:00 p.m.)

- Introduction and welcome
- Construction problems;: Time, money, performance, rules, good estimating, and cost engineering
- Cost escalation and what we can do
- Labor Productivity
- Factors and measurement
- Location factors and improvement

Day 2 (9:00 a.m. - 1:00 p.m.)

- Cost Control - Solutions
 - At four levels of project development
 - Tools and measurement systems
 - 17 problems and 60 corrective actions
- Construction - 11 road signs to success
- Case Studies - 7 problems and solutions
 - 800 miles GM Project

Day 3 (9:00 a.m. - 1:00 p.m.)

- CM concepts and tools, cost of CM, PM, and super PM
- CM Case Study
 - Big Building
 - Murphy's Airport
 - Civic Center Change Order
- Change Orders
 - Prevention, estimating

Day 4 (9:00 a.m. - 1:00 p.m.)

- Anatomy and review of a cost estimate,
- Estimating design and estimating costs, conceptual cost estimating - Case Study

- Planning and Scheduling ---bar charts to CPM
- Cost/Value engineering
- Cost Index --development and use in estimating

Day 5 (9:00 a.m. - 1:00 p.m.)

- Cost data formats and system summaries for management overview
- Future - Project Integrated Computerization (P.I.C.)
- Final adjournment
- Parametric estimating - Air Force
- CES - Estimating - U.S. Navy
- Schedule cost estimates - prima vera (PV)
- Summary - Questions and Answers