

Seminar – Part 4 – D
Aerospace, Government, and Contractors Cost Estimating

THE PROGRAM

This powerful seminar concentrates on the preparation of a detailed construction cost estimate for a 4100 SF reinforced concrete masonry, steel joist roof system for an office laboratory building, using an 11-page set of plans and outline specification, 86 item price schedule. The color keyed slides and view graphs of 14-20 page estimate carries the student from the earthwork to bid summary with special emphasis on faster, more accurate and successful estimates for cost engineering. Also, an introduction to computer estimating now and in the future, with a sample manual and computer estimate for comparison, use, and ease of selecting a better computer estimating system.

OBJECTIVE

To enable construction personnel to understand and estimate construction and GSE projects.

WHO SHOULD ATTEND

Cost and Project Engineers in Aerospace in Aerospace and Construction, Government A & E Consultant Estimators, Contractors, Construction Estimators, and other management personnel working for contractors or owners who want to prepare reliable construction and GSE estimates and designs.

BENEFITS TO ATTENDEES

- Ability to understand & prepare more reliable detailed estimates for construction and GSE projects
- Improve bidding success, program budgeting, faster and better
- Office lab demonstrating both manual and computer estimating
- Instruction on taking off 3-15 trades at one time

SPECIAL FEATURES

- The student will have an opportunity to prepare, under expert guidance, an estimate for an office building
- The instructor will facilitate learning in a collegial environment.

Program – Day 1 – 9:30 – 1:30

- Introduction
- Estimating Overview 3 - 7 - 21 steps
- Markups, types, estimating proposals
- Contractor Vs Gov. Estimating - Differences
- Aerospace/KSC 10 significant cost factors
- 20 years of KSC cost index, created & developed by J. A. Brown

Day 2 – 9:00 – 1:00

- Estimating the cost of estimating
- Estimating the cost of A & E designs, GSE
- Contingencies 0 – 25%
- Concrete – forms, rebar – special finishes
- Structural steel buildings
- KSC estimating Spec. G0002 – created & developed by J. A. Brown

Day 3 – 9:00 – 1:00

- GSE/Misc. steel, platforms, equipment
- Aluminum, stainless steel, special equipment
- Amazing 5-in-one take-off system
- 30 ways to faster estimating
- Aerospace Estimating tools (67)
- Aerospace Price Book (APB), created & developed by J. A. Brown

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Day 4 – 9:00 – 1:00 Vol. II APB

- Mechanical Estimating HVAC, piping
- Mechanical machinery man-hours
- Electrical Estimating man-hours, NECA

- Electronic, fiber optics, alarm, detection
- GSE – Ground Support Equipment fabrication – man-hour rates
- 12 New Exciting Estimating Tools
- GSE/KSC Estimating Spec. G0003 – Created by J.A. Brown

Day 5 – 9:00 – 1:00

- Specified Estimating Summaries Project ECBC/CCE
- Labor & materials summary – construction/GSE
- Systems – Elements, budget comparison summaries, Vol. III
- Aerospace Labor Productivity – 1.15 to 5x
- Location factors – survey
- Bid Problems

Day 6 – 9:00 – 1:00

- Case study SSPF – Vol IV – price book cost analysis
- Manual Vs Computer Estimating – survey trends
- CAD – Automatic computer cost estimating & AACE – 39 steps
- Future CAD/Automatic Estimating video