



Estimating Building Construction



Register Now!

AGC Members \$1595
AGC JUP \$0
NON Members \$1995
Includes Tuition, Books & Materials.

"I came to this class with little idea on how to estimate. After attending this course it became very clear to me how to assess construction costs and all of the elements involved in developing an estimate. The course is well-rounded, includes excellent reference materials, and the instructor provided great classroom support and used real world examples!"

—Carlos Montijo
Contractors Tiles Plus, Inc.

"Excellent Course—I would recommend it to any estimator!"

—Ann Davidson
Walton Construction

"I would recommend your training to anyone in the construction business. Your training provided more than I expected."

—Mark Ferguson
Director of Construction,
Fibrebond

SYNOPSIS

Division 1: General Conditions

- Complete detail estimate developed
- Full project schedule developed
- All support/supervision costs included

Division 2: Sitework

- Subcontractor bids reviewed
- Both scope and prices analyzed

Division 3: Concrete

- Complete detail estimate developed
- Cost breakdown for forming, reinforcing, placing and finishing
- Pre-cast components estimated
- Methods and options of performance studied

Division 4: Masonry

- Complete detail estimate developed
- Block, brick, stone and glass block are estimated
- Industry accepted productivity adjustments are implemented

Division 5: Steel and Miscellaneous Metals

- Complete detail estimate developed
- Tonnage conversions accomplished as required
- Erection equipment and costs reviewed

Division 6: Carpentry

- Complete detail estimate accomplished
- Trim carpentry estimate prepared for current commercial building
- Materials adjusted from installed to purchased quantities

Division 7: Thermal and Moisture Protection

- Complete detail takeoff accomplished
- Both pitched and flat roofs are estimated

Division 8: Doors and Windows

- Complete detail takeoff accomplished

Division 9: Finishes

- Complete detail takeoff accomplished
- Room finish schedule utilized as checklist
- Memory sheet method used to reduce estimating time required

Divisions 10 through 16: Mechanical, Electrical and All Specialty Construction

- Estimated by general contractor methods that rely on subcontractor performance
- Scope verification and price analysis per division and/or trade
- Commercial construction project "real world" bids are utilized

Summary Estimate and Bid

- A complete project estimate is prepared
- Total project cost is compared to recent project costs
- Mark-ups for overhead and profit are covered
- A bid document is completed

To register, AGC members call 858-558-7444 x 101

www.agcsd.org

This five-day course fully prepares attendees to work as estimators for contractors bidding institutional or commercial building projects. Upon completing this course, students will be able to accurately takeoff and summarize work quantities from architectural drawings. Students will learn to apply the correct costs for both labor and materials, and will leave this course having prepared an accurate estimate for a complete commercial project. Students attending this course attain a level of proficiency that might otherwise take six months or more to achieve with only on-the-job training.

WHO SHOULD TAKE THIS COURSE

- Estimators with responsibility for total project costs
- Beginning to Intermediate Estimators
- Developers/Builders
- General Contractors
- Project Managers
- Building Contractors

THIS COURSE SHOULD BE PART OF YOUR COMPANY'S TRAINING PROGRAM

In just five days, attendees of this course will learn how to produce accurate detail estimates of commercial buildings. All students will complete a detail estimate of the general construction trades for a two-story commercial building. Mechanical, electrical, sitework and other specialty trades will be estimated using comparative appraisal estimating techniques. Students attending this course will develop the underlying skills needed to create and organize accurate estimates. Math and takeoff skills necessary for estimating the general construction trades are covered in detail in this course. Different types of drawings needed to visualize the building and its components are also covered in detail. This course provides a practical alternative to the semester-long courses offered at many colleges with construction technology programs. Students attending this course attain a level of estimating proficiency that might take an entire semester of study or six months or more of on-the-job training to achieve.

UPON COMPLETION, STUDENTS WILL BE ABLE TO

- Perform complete detail estimates of the general construction trades for commercial buildings.
- Put into practice a structured and tested system for determining project costs.
- Determine how project complexity affects labor pricing.
- Select the correct costs for all aspects of the entire project.
- Utilize various approaches to negotiate favorable subcontracts and material prices.
- Have confidence in their ability to function as fully qualified building construction estimators with valuable skills.



DATE:
January 29-February 3, 2018

LOCATION:
**AGC San Diego Chapter
Training Center
6212 Ferris Square
San Diego, Calif. 92121**

858-558-7444 x 101



Estimating Concrete Costs

Register Now!

AGC Members \$ 795

AGC JUP \$0
Using Eligible Funds

NON Members \$ 995

Includes Tuition, Books & Materials

"This class addresses and teaches how and why an effective detailed estimate will allow you to win more projects, increase profitability and save the company money. I learned complete concrete estimating."

—Talmadge A. James
Dunn Building Co.

"This course taught me how to do take-offs and how to price a job. Now I can work in the office as well as on site. Everyone involved in concrete construction should consider attending this course."

—Garan Gallagher
Euroway Construction Corporation

SYNOPSIS

- Get acquainted with concrete
- Concrete terminology
- Categories of concrete costs
- General Costs for:
 - Forming
 - Placing
 - Reinforcing
 - Finishing
 - Equipment
- Essential forms and documentation
- Takeoff quantities of work
- Reinforcing costs for:
 - Footers/pads
 - Pile caps
 - Piers/pilasters/columns
 - Walls/beams
 - Slabs/wire or fiber fabric
- Shrinkage and temperature reinforcement
- Horizontal forming
- Job-built forms
- Tilt-up systems
- Pre-cast concrete
- Manufactured forming systems
- Discussion on:
 - Hot and cold weather concrete
 - Admixtures
 - Chemical sealers, compounds
 - Form releases, hardener
- Prepare a concrete bid
- Slabs on grade problems
- Footers and pads



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Attendees of this two-day course will learn to accurately estimate concrete costs. Using a real set of drawings, students will perform a complete concrete takeoff and will apply material and labor costs to that takeoff to assemble a complete estimate. Students will leave this class with the knowledge needed to produce accurate concrete estimates using efficient and reliable estimating techniques.

WHO SHOULD TAKE THIS COURSE

- Beginning to Intermediate Estimators
- Project Managers
- Supervisors working for General Contractors
- Concrete Subcontractors
- Employees of construction companies to which concrete costs are important

WHAT YOU WILL LEARN

This two-day estimating course covers a multitude of different concrete cost categories, including purchasing, forming, reinforcing, finishing and placing concrete. This course covers all aspects of concrete construction with which the estimator must be familiar, including concrete terminology, construction types, concrete properties, chemical admixtures, forming systems and curing materials. How each of these aspects affects the cost of concrete construction is covered in detail.

This course is designed to improve the skills and building knowledge the estimator draws upon while estimating the concrete portion of a project. A brief review of basic math and estimating procedures will be covered. Various concrete practice problems will be presented. A working set of drawings will be assigned and estimated. Material and labor costs will be presented, utilizing a cost data book and other references. This course is a must for beginners, as well as a necessary review for experienced estimators.

UPON COMPLETION, STUDENTS WILL BE ABLE TO

- Prepare accurate estimates of concrete costs.
- Select cost-efficient methods of forming, placing, reinforcing, and finishing the concrete.
- Organize cost data in a clear and logical manner for use in a summary estimate.
- Apply realistic unit costs to the estimated material and labor quantities.
- Check and verify the total cost estimate using comparative analysis.



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January 29 - 30, 2018

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