

S F Johnson Consulting Class Outline

Professional Concrete/Masonry Estimating

| Date | |
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| Professional Concrete/Masonry Estimating | <p>In this on-line 5-week estimating class, we will review the three steps of mastering estimating. This class covers all procedures necessary for you to provide a cost estimate for any concrete or masonry scope of work. We show the student and discuss the details related to:</p> <ol style="list-style-type: none"> 1. Completing accurate take offs (linear measurements, heights of walls and square foot cubic yard and area totals) 2. The best way to have quick accurate pricing for continuous bidding 3. Determining accurate manhours based on the exact scope of work 4. Professionally formatting a cost estimate for each sheet in the set 5. Reviewing the construction documents vs. the Specifications 6. Handling errors on plans <p>This is a live 5-week class where the above referenced topics are covered with an additional five weeks to complete five progressively difficult cost estimates. The student receives a variety of quizzes based on the area of study and must pass a final exam to successfully complete this course. All students who successfully complete any area of study with receive our company certification.</p> <p><u>Prerequisite: The student must have a basic understanding of basic plan reading and must take a test to qualify for this class.</u></p> <p>In addition to paying the class enrollment fee, the student will be required to purchase additional study materials from our student store.</p> |

| Class Schedule | |
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| Class Days & Times Vary Based on Month | <p>Class 1 & 2</p> <p>The Construction Drawing vs. The Specifications</p> <p>Understanding the 4 Views (Plan, section, detail, elevation) related to concrete and masonry</p> |

Brick Wall Assemblies

Running or Stretcher Bond,
No Headers
Common or American Bond
English, English Cross or
Dutch Bond
Flemish Bond
Double Flemish Bond
Double Headers
Brick Walls, Common Bond
Norman Brick
Jumbo Brick
Modular Brick
Padre Brick
Commercial Brick
Soldier Bond
Sailor Bond
Brick Columns
Brick Arches
Brick Pavers
Fireplaces

CMU Assemblies

CMU Foundation Walls
CMU Wall Assemblies
4-inch walls
6-inch walls
8-inch walls
12-inch walls
Wall Assemblies with
Intermediate Slabs
CMU Radius Walls
Cavity Wall Assemblies
Dur-O-Wal
Vertical Cell Grout
Shear Wall Grout
Precast Lintels and Sills

Class 3 & 4

Door and Window Openings,

No Lintel

4-inch openings
6-inch openings
8-inch openings
12-inch openings

Door and Window Openings with Lintel

4-inch openings
6-inch openings
8-inch openings
12-inch openings
Lintel Block

CMU Columns

8-inch half block
8-inch round block
8" x 16" CMU column
L-shaped CMU columns
12-inch square
12-inch round
12-inch half round
16-inch square
16-inch round
16-inch half round
2-foot square

CMU Retaining Walls

Glass Block

Mass Gravity Walls

Stonework

Class 5

Concrete Assemblies

Caisson Foundations

Column Pads

Concrete Continuous Spread

Footings

Thickened Edge Footings

Thickened Slab Footings

Slabs on Grade

Dowels and Anchor Bolts

Concrete Walls

4-inch walls

6-inch walls

8-inch walls

10-inch walls

12-inch walls

Sidewalks

Simple

With turndown

Round Concrete Columns

8 inch

10 inch

12 inch

14 inch

16 inch
18 inch
20 inch
24 inch

Square Concrete Columns

8 inch
12 inch
16 inch
20 inch
24 inch

Concrete Stairs

On grade
Above grade

Tie Beams

8 x 12
8 x 16
8 x 24
8 x 36
12 x 12
12 x 16
12 x 24
12 x 36

Rake Beams

Flat Slabs

Interior Beams, Girders and

Spandrel Beams

Pan Slabs

Waffle Slabs

Concrete Accessories