



**Oregon-Columbia Chapter of the
National Electrical Contractors Association
Presents
Basic Estimating of Electrical Construction**

July 20-23, 2009
8:00 am -- 4:30 pm (Each Day)
Oregon-Columbia Chapter Office
601 N.E. Everett Street
Portland, OR 97232
(503) 233-5787

Registration Fee: \$635 Chapter Members - \$825 Non-Chapter NECA Members

Bob Mooty will instruct this course designed to assist the student in the fundamentals of estimating electrical construction. This course is for those of little or no experience in estimating, and those seasoned estimators looking to hone their skills. This course is a must for those who find themselves frustrated by the current bid market and continue to question their efforts in compiling a “competitive” bid. The principles taught will help eliminate careless mistakes, which can cost your company its very existence. Prerequisites would include an understanding of electrical construction and the application of electrical material.

(Deadline to Register: July 6, 2009)

Yes, Please Sign up the following attendee for this class:

Name: _____ Company _____

Phone: _____ Email: _____

(Required for the online component of this course)

Please make check payable to NECA and mail to:

Oregon-Columbia Chapter, NECA, 601 NE Everett, Portland, OR 97232
Phone: 503.233.5787, Fax: 503.235.4308

- Check Enclosed Education Fund Request Attached (Chapter Members Only)

Recommended Hotel: Residence Inn Portland, 1710 NE Multnomah Street, Portland, OR, 503.288.1400

The following items are necessary for the successful participation of those attending the course:

- ♦ One engineering scale
- ♦ Rotameter with 1/4” and 1/8” scale
- ♦ Calculator
- ♦ One architect scale
- ♦ Counter
- ♦ Colored Pencils or high lighters

All seminar registrants will be required to take an hour-long online portion of the Basic Estimating course prior to attending the “live” course. It is necessary to have your email address. Please remember to include this when registering for the course. All registrants will be contacted and directed to a website where they can log on and take the online course. All seminar participants are required to complete the online course in its entirety. You must register at least one week prior to the seminar to ensure that you are enrolled in the online portion of this seminar. A description of the online portion of the Basic Estimating course is listed below:

MEI's Basic Estimating Course Includes Online Component

NECA has created a one-hour online course that is required for all Basic Estimating class participants. NECA's Manual of Labor Units has, for many years, been widely recognized as the electrical construction industry's leading source for labor unit data. It is essential for a person to understand the intent and application of this labor unit data to properly calculate the labor required on a project. This online course, which is part of the basic estimating course, serves as an introduction to NECA's Manual of Labor Units. It contains helpful information about the origin of the labor units, the proper application of the data and how one can use these labor units to competitively bid electrical construction projects. The purpose of this online course is two-fold. First, it will allow all students of a Basic Estimating class to have the same basic information prior to the classroom instruction. For that reason, it will also allow us to reduce the time in class from the previous 4 ½ days to 4 days.

Topics covered in the class are labor factoring for job conditions, basics of material takeoff/expanded material takeoff, Manual of Labor Units introduction, labor units applied to material takeoffs, bid documents, organizing an estimate for control, and much more.



Participants who successfully complete this course will receive 2.4 CEU.

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