Basic Estimating Electrical Construction

Basic Estimating Electrical Construction Modules and Learning Objectives. This course is for those with little or no experience in estimating, and those seasoned estimators looking to hone their skills. Materials include textbook, Manual of Labor Units, reference books, sample drawing, and specification and work sheets for each student. 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 you eliminate careless mistakes, which can cost your company its very existence.

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 now 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.

Topics covered 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.

A typical schedule of events includes:

Day 1: Introductions of participants Brief overview of packet material Affects of productivity on estimating Labor factoring for job conditions Summarizing the Estimate Basics of material takeoff

Day 2: Application of job documents to the estimate Expanded material takeoffs Labor units applied to material takeoffs Switchgear takeoff and laboring Introduction to feeder takeoff Pricing and laboring of material listing

Day 3: Organizing an estimate for scheduling and control Beginning actual project takeoff Organization approach for the estimate Fixture takeoff Switchgear takeoff Special raceway takeoff Actual feeder takeoff

Day 4: Power, motor and control takeoff Assembly takeoff Devices, Lighting outlet takeoff Branch Circuit takeoff Communication and special wiring systems Actual application of Summarizing the Estimate Simulated bid situation Bid opening Critique of bid preparation Course conclusion and evaluation.

Pre-requisites include an understanding of electrical construction and the application of electrical material. This course is a recommended pre-requisite for the Advanced Estimating Class.

PLEASE NOTE THE FOLLOWING ITEMS ARE NECESSARY PARTICIPATION - ROTAMETER WITH ¼" AND 1/8" SCALE, COUNTER, CALCULATOR, COLOURED PENCILS OR HIGHLITERS