

Mcaa Labor Estimating Manual

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In addition to the solid estimating data this manual has provided for years, this new edition is expanded and updated to include installation of pneumatic mechanical instrumentation, which is used in monitoring various process systems.

First published in 2006. Clear, practical and comprehensive, this mechanical estimating manual provides an indispensable resource for contractors, estimators, owners and anyone involved with estimating mechanical costs on construction projects, including a wealth of labor and price data, formulas, charts and graphs. Covering timeproven methodologies and procedures, it offers the user a full range of readytouse forms, detailed estimating guidelines, and numerous completed examples. You'll learn from leading experts how to produce complete and accurate sheet metal, piping and plumbing estimates both quickly and easily. The manual will also be of value to supervisors, mechanics, builders, general contractors, engineers and architects for use in planning and scheduling work, budget estimating, cost control, cost accounting, checking change orders and various other aspects of mechanical estimating.

Project changes are often encountered in construction industry and can hurt labor productivity, which in turn can jeopardize project success for all parties. Contractors and owners frequently fail to agree on the merit, responsibility and impact of changes at the time of their occurrence. This failure to agree becomes a major source of claims and litigation. There are several ways to calculate productivity loss caused by changes. One method to quantify loss of productivity is the MCAA (Mechanical Contractors Association of America) Factor method. The MCAA method has been in use for over forty years, and has gained wide acceptance in the construction industry and before various Courts and Boards of contract appeals. But the model has been rejected in several recent claims. Some researchers commented that this method has several deficiencies that limited its use. This dissertation aims to make improvements to the existing MCAA model. We document the MCAA model's history, identify typical mistakes made in its application, and compare it with other studies and previous legal case decisions. Suggested improvements to the model are then offered. First, based on the observations and analysis of this dissertation, we recommend the following when using the MCAA model: 1) Establish causation for EACH Factor and explain clearly when, where, who, and how productivity was affected; 2) Use fewer Factors rather than more Factors; and 3) Do not blindly rely on the Loss of Productivity (LOP) damage percentages contained in the MCAA manual. Secondly, this research proposes structural improvements on the MCAA model for its use in a LOP claim: 1) suggested use of a cause-effect visualization tool to establish causation; 2) improved definitions by explaining what each Factor means and how that Factor hinders labors productivity; and 3) suggestions for quantification of LOP impact for each Factor. Finally, this dissertation proposes procedures and guidelines to use the MCAA method in LOP analysis. This dissertation will help parties (both the contractor and the owner) better understand the MCAA method in estimating productivity loss so that the measure of the loss of productivity can be less subjective and more transparent. With the improvements provided in this dissertation, LOP can be better quantified and LOP disputes can be solved more quickly and reasonably.

Manhours, labor and material costs for all common plumbing and HVAC work in residential, commercial, and industrial buildings. You can quickly work up a reliable estimate based on the pipe, fittings and equipment required. Every plumbing and HVAC estimator can use the cost estimates in this practical manual. Sample estimating and bidding forms and contracts also included. Explains how to handle change orders, letters of intent, and warranties. Describes the right way to process submittals, deal with suppliers and subcontract specialty work. Included in this edition: costs for ASME "H" or "U" stamped, LFUE certified 90% or better green certified boilers, costs for emission sensing and recording equipment for boilers, costs for self-contained roof-top DX air conditioning units, costs for heat recovery ventilators, roof exhaust fans, makeup air units, ventilation exhausters, energy-efficient exhauster arrays, air balance software, LEED certified boilers, residential heat pumps, LEED ce

In compiling the third and entirely revised edition of Construction Disputes: Representing the Contractor, the editors have sought out as specialists in their field: contributing authors who are not only experienced in resolving construction disputes but also known and respected for their expertise in specific critical areas commonly encountered in construction litigation. Although intended primarily to assist attorneys, this book also provides a useful desk reference for anyone whose activities touch on long-term contract matters and gives individual contractors a better understanding of how their actions may affect this increasingly important part of operations.

Man-hours, labor and material costs for all common plumbing and HVAC work in residential, commercial, and industrial buildings. Anyone can quickly work up a reliable estimate based on the pipe, fittings and equipment required for the job. Every plumbing and HVAC estimator can use the cost estimates in this practical manual. Sample estimating and bidding forms and contracts also included. Explains how to handle change orders, letters of intent, and warranties. Describes the right way to process submittals, deal with suppliers and subcontract specialty work. Includes an electronic version of the book with a stand-alone Windows estimating program Free on a CD-ROM.

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