

Bcn 3611 Construction Estimating I

Construction Cost Estimating Estimating Building Costs Construction Estimating and Bidding: Training Manual to Acquire Fundamental Knowledge in Estimating Building Construction Costs Fundamentals of Construction Estimating Construction Estimating Construction Estimating Construction Estimating for General Contractors The Art of Construction Estimating Estimating and Tendering for Construction Work Introduction to Estimating for Construction Construction Estimating and Bidding Construction Estimating - Estimating Concepts Construction Project Estimating 101 Building Construction Estimating New Code of Estimating Practice Construction Estimating Using Excel Construction Cost Estimating Fundamentals of Construction Estimating Construction Estimating and Bidding Construction Estimating Using Excel Len Holm Calin M. Popescu Yvon Chabot David J. Pratt Leonard P. Toenjes Karl F. Schmid Leo Diamant Anthony Williams Martin Brook Brian Greenhalgh AGC Construction Education Committee Builder's Book Inc. P D Mason Stephen D. Schuette The Chartered Institute of Building Steven Peterson Len Holm David Pratt AGC of America Steven J. Peterson MBA, PE

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construction cost estimating equips a new generation of students and early career professionals with the skills they need to bid successfully on projects from developing bid strategies to submitting a completed bid this innovative textbook introduces the fundamentals of construction estimating through a real life case study that unfolds across its 24 chapters exercises at the end of each chapter offer hands on practice with core concepts such as quantity take offs pricing and estimating for subcontractor work online resources provide instant access to examples of authentic construction documents including complete detailed direct work estimates subcontractor work estimates general conditions estimates markups and summary schedules through its unique mix of real world examples and classroom tested insights construction cost estimating ensures that readers are familiar with the entire estimating

process even before setting foot on the jobsite

companies live or die on the basis of estimating their costs preparing estimates and bidding for new jobs is a complex and often costly process there is no substitute for on the job training until now drawing on the authors combined experience of more than 70 years estimating building costs presents state of the art principles practices a

the purpose of this manual is to enable students to gain fundamental knowledge of estimating the cost of building construction projects the procedures used for estimating vary from company to company on the other hand the construction industry has become over the years more competitive which has made construction companies to do their best in order to offer the best possible service at the least price to overcome this constraint it is necessary to know precisely the cost of services and it would be the role of an estimator unfortunately there are no specific rules as it accounts for obtaining a good estimate even among individuals within a company because of contracting method currently employed like fast track or ppp construction companies need precision in their estimates in addition as estimators are increasingly consulted at conceptual design stage we will talk about conceptual estimate in chapter one and then focus on detailed estimations and its process in upcoming chapters we all know that a good estimator needs to have a good knowledge about construction techniques and factors that influence the realization of a project we also know that an individual who possesses a high level of experience in his her field but also could be a poor estimator in the absence of reliable method so in this manual we will focus more on estimations method rather than techniques of construction a detailed estimate bid estimate can be analyzed in terms of the six principal stages of the process 1 quantity takeoff 2 recap quantities 3 pricing the recap 4 pricing subcontractor's work 5 pricing general expenses 6 summary and bid to decode these six steps into an effective and accurate estimation method the manual is divided into three modules each module is divided into chapters the first module addresses the preparation of an estimate for construction and describes the entire submission process the second module deals with the methods of measurement of the constructive systems then in the third module establish the prices of the elements the expenses of the general conditions and finally close the submission

estimating is an integral part of the construction process and may be performed at various stages of a project conceptual estimates are general in nature and require the least amount of data they are used to determine the feasibility of a project design development estimates require up to 40% of documentation to be complete and thus provide a partial picture of total project costs construction estimating focuses on detail takeoff estimates detail takeoff estimates account for each individual construction component or takeoff and are the most accurate type of construction estimate construction estimating provides information about detail takeoff estimating techniques as well as information about construction products materials and processes to prepare the estimator to actively participate in the design process the text includes an appendix with helpful charts worksheets and metric conversion tables

a guide to the basics of estimating construction costs for residential and light commercial building projects it takes readers through five phases that lead to a successful estimate initial assessment work analysis programming costing and cost distribution and summarization

the first book to provide general contractors with complete coverage of the pre bid process this practical guide describes all the necessary components involved in the estimating process offers step by step guidelines for preparing an accurate bid without getting bogged down in the details topics include developing the cost sheets for bidding the total projects methods of obtaining and recording subcontractors bids how to negotiate effectively during the bidding period and how to evaluate the bids received includes an appendix with a cost sheet and accompanying takeoff sheets for a typical bid

skilled estimators seem to have disappeared from the industry but there is one big problem skilled estimators are still very much needed in industry estimators are among the highest paid professionals in the industry from 22k for a trainee up to 85k for a seasoned professional as of the time of writing in 2023 this reflects their level of responsibility scarcity and value to the market this is as much or more than a quantity surveyor who has probably spent years studying at university estimating is one of if not the most important jobs in the construction industry and estimators are in very high demand if you train as an estimator today within a year you could be earning good money and find it very easy to find secure employment there has long been a shortage of estimators in our industry giving building companies major issues getting work priced and making the ones that are available very valuable to the market the other problem facing building firms is that there are very few estimators being trained currently no college or university course exists that i could find that covers the skills required to become an estimator i could only find one book on amazon that was anywhere near relevant i couldn t find any written by a builder who would be best placed to offer the most relevant training so not only does it pay well there is scarcity and no training exists which means skilled estimators will always be highly sought after this is why you should train as an estimator wherever you are in life right now you can train to be an estimator and within a few years you will be earning enough money to easily provide your family with a good standard of living just as it has done for my family this is my reason for writing the book to raise awareness of estimating and to capture more than 35 years of pricing knowledge to fill the training gap and help aspiring estimators i have been pricing building projects for more than 35 years having taken over the business from my father i have tendered some 2500 jobs ranging from 20 000 to 5m in value my win lose ratio was around two in five which is very good in the industry this success has enabled me along with my sons to build a substantial construction and property development business so i feel very confident that mine and my sons skills and experience shared in this book will stand you in good stead for your career as an estimator this book is a practical training manual with very in depth information which i believe you will not find anywhere else it includes everything you need to know to become a building estimator peppered with deep gems of wisdom and insider tips built up over a lifetime in the industry it represents mine and my sons opinions only and is based entirely on our lives of successfully pricing building projects in our main contracting business it contains all the skills you will need to be a competent estimator for any company in the uk and much of the world

estimators need to understand the consequences of entering into a contract often defined by complex conditions and documents as well as to appreciate the technical requirements of the project estimating and tendering for construction work 5th edition explains the job of the estimator through every stage from early cost studies to the creation of budgets for successful

tenders this new edition reflects recent developments in the field and covers new tendering and procurement methods the move from basic estimating to cost planning and the greater emphasis placed on partnering and collaborative working the new rules of measurement nrm1 and 2 and examines ways in which practicing estimators are implementing the guidance emerging technologies such as bim building information modelling and estimating systems which can interact with 3d design models with the majority of projects procured using design and build contracts this edition explains the contractor s role in setting costs and design statements to inform and control the development of a project s design clearly written and illustrated with examples notes and technical documentation this book is ideal for students on construction related courses at hnc hnd and degree levels it is also an important source for associated professions and estimators at the outset of their careers

students and professionals encountering estimating for the first time need an approachable introduction to its principles and techniques which is up to date with current practice introduction to estimating for construction explains both the traditional techniques and best practice in early contractor involvement situations within the framework of modern construction procurement as well as introducing different estimating techniques it includes the nature of costs in construction from a cost of resources approach modern tendering procedures and the stages of development of construction projects how to convert an estimate into a formal tender and then into a contract simple numerical examples of estimates estimating and cost analysis during the construction project summaries and discussion questions in every chapter this is an easy to read introduction to building estimating for undergraduate students or anyone working in a quantity surveying or construction commercial management role who needs a quick reference

are you looking for that construction estimating edge over your competition on project bid day or maybe you re a new construction estimator ready to start your career with real world knowledge in your back pocket but don t know where to look stop look no further and keep reading construction project management 101 is your real world hands on how to guidebook that ensures your construction estimating success right from day one the author p d mason is not just a skilled trades professional but a 27 year construction veteran with nearly two decades and millions of project dollars of construction estimating success mason s self taught and self proven estimating methods and processes are now available to every estimator who reads this book within the book mason speaks to estimators while mentoring and guiding them through construction estimating topics such as the must know fundamentals of construction estimating how to create an individualized workflow to ensure accuracy while estimating the deep dive details of project specifications how effective communication increases your chances of winning the contract factors that affect residential or commercial estimating why risk management is often overlooked by construction estimators the technological future of construction and how it affects estimators how business ethics are pivotal to long term opportunities as an estimator effective time management to create more estimates a glossary with nearly 250 estimating specific definitions and much more inside the book let this book be the practical desktop resource that guides you through many common situations in estimating providing solutions that can significantly increase the bottom line of your projects your construction project estimating career will thank you for reading this book

the essential authoritative guide to providing accurate systematic and reliable estimating for construction projects newly revised pricing and bidding for construction work is at the heart of every construction business and in the minds of construction consultants poor bids lead to poor performance and nobody wins new code of estimating practice examines the processes of estimating and pricing providing best practice guidelines for those involved in procuring and pricing construction works both in the public and private sectors it embodies principles that are applicable to any project regardless of size or complexity this authoritative guide has been completely rewritten to include much more contextual and educational material as well as the code of practice it covers changes in estimating practice the bidding process the fundamentals in formulating a bid the pre qualification process procurement options contractual arrangements and legal issues preliminaries temporary works cost estimating techniques risk management logistics resource and production planning computer aided estimating information and time planning resource planning and pricing preparation of an estimator s report bid assembly and adjudication pre production planning and processes and site production established standard for the construction industry providing the only code of practice on construction estimating prepared under the auspices of the chartered institute of building and endorsed by a range of other professional bodies completely rewritten since the 7th edition to include much more contextual and educational material as well as the core code of practice new code of estimating practice is an important book for construction contractors specialist contractors quantity surveyors cost consultants and for students of construction and quantity surveying

for beginning to intermediate courses in construction estimating in two and four year construction management programs a step by step hands on introduction to commercial and residential estimating construction estimating with excel 3 e introduces readers to the fundamental principles of estimating using drawing sets real world exercises and examples the book moves step by step through the estimating process discussing the art of estimating the quantity takeoff how to put costs to the estimate and how to finalize the bid as students progress through the text they are shown how microsoft excel can be used to improve the estimating process because it introduces spreadsheets as a way of increasing estimating productivity and accuracy the book can help both beginning and experienced estimators improve their skills the third edition gives students a broader understanding of construction estimating with a new chapter discussing the role that estimating plays in different project delivery methods and in the design process and how to use data from rsmeans to bring the book up to date the material and equipment costs and labor rates have been updated to reflect current costs and the discussion of excel including the figures is based on excel 2016 additionally content throughout the book has been updated to align to acce and abet student learning outcomes student resources are available on the companion website pearsonhighered.com/careersresources

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before they even set foot on the jobsite

fundamentals of construction estimating 3rd edition presents estimating procedures in a clear and precise manner explaining all the procedures of estimating the cost of construction work such as quantity takeoff pricing of the contractor s work pricing sub trade work pricing site overhead and compiling bid documents this book offers readers thorough instruction on the principles of construction estimating and the skills to become a professional estimator by using drawings for two complete projects one residential and one commercial thereby leading the reader through the complete estimating process which can be used in various trades on many different types of construction projects important notice media content referenced within the product description or the product text may not be available in the ebook version

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