# **COST ESTIMATING TECHNIQUES & METHODOLOGIES**

Review Summary of Work (Scope Definition)

- Prepare planning Class 4 and 5 cost estimates
- Identify schedule (project activities and durations)
- Collaborative planning with stakeholders – NetPoint \*

Budgetary Services (Funding, Start-up Packages)

- Budget Level 2 estimates (comparative or check estimates)
- Review and comment on design documents
- Prepare opinions of cost escalation, as needed
- Prepare cash flow projections
- Provide data to support bond offerings
- Evaluate support procedures, processes and system enhancement modifications

Prepare Detailed Class
1-3 Cost Estimates

- Deterministic based on drawings and specifications
- Establish a cost breakdown structure (CBS)
- Align CBS with work breakdown structure (WBS)
- UniFormat (system/assemblies)
- CSI master format (work result/specification section orientation)

Constructability Reviews

- Inconsistency in drawings
- Referencing (details, specs, etc.)

Cost Management
During Construction

Support SOV Review

## **Construction Estimating Techniques**

Theodore H. Myer, Richard I. Krauss

#### **Construction Estimating Techniques:**

Construction Estimating Techniques Glenn M. Hardie, 1987 Project Cost Estimating Nigel J. Smith, 1995-03-31 The aim of this book is to offer advice and information on preparing and using estimates in the civil engineering industry It deals with estimating at different stages of construction projects and with the practice of estimating **Successful Estimating** Methods John D. Bledsoe,1992 Part I covers preparation of estimates at every phase of a construction project Part II covers advanced and specialized estimating including spreadsheet programs task or schedule estimating public works and heavy construction estimating balanced and unbalanced bidding change orders and litigation Includes How and when to use Unit Price Assemblies and conceptual estimates How to create and update spreadsheet estimates with working samples that can be downloaded from Means Internet Web site Strategies to ensure accuracy with proven self check methods How to do trade off cost comparisons of construction methods and equipment Life Cycle Cost Analysis and Value Engineering How to Estimate with RSMeans Data RSMeans, Saleh A. Mubarak, 2020-03-31 A practical hands on guide to real world construction estimating How to Estimate with RSMeans Data is the only instructional book on construction cost estimating that uses the most popular source of construction cost data RS Means This updated fifth edition includes new coverage on the role of Building Information Modeling BIM in the estimating process and over 300 sample problems and exercises that show you how to apply cost data to your building project based on the RS Means 2015 Building Construction Cost Data The companion website provides access to RS Means CostWorks data allowing you to use real world numbers in your practice estimates and the included Instructor's Manual provides step by step solutions to problems in the book Focused on the practical aspects of estimating this book emphasizes the application of estimating techniques which are transferable to any estimating software through problem solving and the ground up creation of complete construction project estimates Estimating skills are fundamental to the construction industry and are applied by all parties at all levels throughout the industry This book is a hands on guide to the techniques and tools used to create a thorough estimate with plenty of opportunities for practice Apply cost data to all aspects of the building project Practice your skills on over 300 sample problems Construct a complete estimate using RSMeans Besides being an essential construction skill learning estimating helps you become familiar with reading and understanding construction blueprints and how construction assemblies are built Mastery of these vital skills is important to your future career and How to Estimate with RSMeans Data is your ideal guide to *Electrical Estimating Methods* Wayne J. Del Pico, 2014-10-22 Simplify the estimating process with the a solid foundation latest data materials and practices Electrical Estimating Methods Fourth Edition is a comprehensive guide to estimating electrical costs with data provided by leading construction database RS Means The book covers the materials and processes encountered by the modern contractor and provides all the information professionals need to make the most precise estimate The fourth edition has been updated to reflect the changing materials techniques and practices in the field and provides the

most recent Means cost data available The complexity of electrical systems can make accurate estimation difficult but this guide contains all the necessary information in one place An electrical estimate represents the total cost for materials labor overhead and profit but accuracy is virtually impossible without a basic knowledge of the field and real world experience in the type of work required Inaccurate estimates lead to problems with customer satisfaction which often create payment issues A thorough complete and accurate estimate is in the best interest of all parties involved in the work Electrical Estimating Methods provides more than just data Detailed discussions about the work itself help highlight factors that may escape notice and access to the latest cost data helps tie everything together Features include Discussion of current equipment materials and processes Means data for both residential and commercial projects Case studies that illustrate best practices Online access to the latest Means data for fast access on the job The book discusses specific situations as well as general practices and provides comprehensive guidance to the creation of a true current estimation of costs For electrical contractors and estimators Electrical Estimating Methods contains must have content that simplifies the estimating process

Estimating Building Costs for the Residential and Light Commercial Construction Professional Wayne J. Del Pico, 2012-04-03 How to succeed in the construction business step by step guidelines for estimating To be competitive contractors and homebuilders need to know how to generate complete accurate estimates for labor and material costs This book guides readers through the entire estimating process explaining in detail how to put together a reliable estimate that can be used not only for budgeting but also for developing a schedule managing a project dealing with contingencies and ultimately making a profit Completely revised and updated to reflect the new CSI MasterFormat 2010TM system the Second Edition of this practical guide describes estimating techniques for each building system and how to apply them according to the latest industry standards Cost considerations and quantity takeoff and pricing are included for virtually every type of work found in residential and light commercial projects from demolition concrete and masonry to windows and doors siding roofing mechanical and electrical systems finish work and site construction Complete with many new graphics and references to professional construction cost databases the new edition provides experienced contractors and novices alike with essential information on How to correctly interpret plans and specifications reflecting updates to contract documents since the first edition Computer estimating techniques and new estimating software for performing quantity takeoff The best methods for conceptual estimating as well as the extremely useful topic of parametric estimating How to allocate the right amounts for profit and contingencies and other hard to find professional guidance How a unit price estimate is built along with labor issues and budgeting for subcontractor work A Comparison of Some Estimating Techniques for **Construction** P. Lloyd, University of Nottingham, 1986 Construction Estimating and Bidding: Training Manual to Acquire Fundamental Knowledge in Estimating Building Construction Costs Yvon Chabot, 2019-03-05 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 form 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 Takeof2 Recap Quantities3 Pricing the Recap4 Pricing Subcontractor s work5 Pricing General Expenses Summary and BidTo 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 **New Code of Estimating Practice** The Chartered Institute of Building, 2018-04-24 The and finally close the submission 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

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