

# Estimation And Quantity Surveying Notes Ppt

Estimation And Quantity Surveying Notes Ppt Estimation and Quantity Surveying A Comprehensive Overview Estimation and quantity surveying are crucial disciplines in the construction industry ensuring projects are delivered on time and within budget This article provides a overview of the key concepts processes and considerations involved drawing parallels to a hypothetical PowerPoint presentation structure Estimation and Quantity Surveying Notes PPT

Understanding these principles is fundamental for successful project control I The Foundation of Construction Finance The success of any construction project hinges on accurate cost estimation and meticulous quantity surveying These interconnected disciplines form the backbone of financial planning and control Estimation focuses on predicting the overall project while quantity surveying involves precisely measuring the quantities of materials and labor required Both are iterative processes refined throughout the project lifecycle Think of it as navigating a complex journey estimation provides the roadmap and quantity surveying provides detailed mile markers II Estimation Techniques Predicting Project Costs Accurate cost estimation is crucial for securing funding attracting investors and avoiding financial pitfalls Several techniques are employed each with its strengths and limitations Preliminary Estimation This early stage estimation uses limited information often relying on historical data unit rates and square footage calculations Accuracy is lower typically within a 20-30% range Its ideal for feasibility studies and initial budgeting Detailed Estimation This method involves a comprehensive breakdown of all project components employing detailed drawings and specifications More accurate than preliminary estimation within 5-10% it demands more time and resources Analogous Estimation This technique compares the current project to similar past projects It leverages historical cost data from projects of similar nature While relatively quick its accuracy depends heavily on the quality of the projects data Parametric Estimation This sophisticated method uses statistical models and algorithms to predict costs based on key project parameters such as size complexity and location Its best suited for large scale projects with ample historical data PPT Note A visual comparison table showcasing the advantages and disadvantages of each estimation technique would be highly beneficial III Quantity Surveying The Art of Precise Measurement Quantity surveying QS goes beyond mere measurement its about strategically managing resources throughout the project lifecycle Key activities include Taking Off Quantities This involves meticulously measuring materials required from drawings and specifications using specialized software and techniques Accuracy is paramount

avoid overspending or shortages

### Preparing Bills of Quantities BOQs

The BOQ is a detailed list of all materials and labor required with associated quantities and unit rates. It's a crucial tool for tendering, contracting, and cost control.

### Cost Planning and Budgeting

QS professionals use the BOQ to create a comprehensive budget incorporating contingency funds for unforeseen circumstances. Regular monitoring and reporting are crucial to ensure the project remains on track.

### Value Engineering

QS professionals identify opportunities to reduce costs without compromising quality or functionality. This proactive approach ensures optimal resource allocation.

### Contract Administration

QS professionals play a vital role in administering construction contracts, overseeing payments to subcontractors and resolving disputes.

**PPT Note:** A flowchart illustrating the sequential steps in the quantity surveying process would enhance understanding.

## IV Software and Technology in Estimation and QS

Modern technology significantly impacts estimation and quantity surveying. Specialized software packages automate tasks like taking off quantities, generating BOQs, and performing cost analysis.

Examples include:

- Autodesk Quantity Takeoff:** A powerful software for automated quantity takeoff from digital drawings.
- Estimating Software:** Various software packages cater specifically to cost estimation, providing tools for detailed cost breakdowns and scenario planning.
- BIM (Building Information Modeling) Software:** BIM integrates design, engineering, and construction data, providing a centralized platform for improved collaboration and cost control.

**PPT Note:** Screenshots showcasing the functionalities of popular software would be highly valuable.

## V Risk Management in Estimation and Quantity Surveying

Unforeseen circumstances are inevitable in construction. Effective risk management is crucial for mitigating potential cost overruns and delays.

QS professionals play a key role by:

- Identifying Potential Risks:** Thoroughly analyzing project plans and specifications to identify potential risks such as material price fluctuations, labor shortages, or unforeseen site conditions.
- Assessing Risk Probability and Impact:** Evaluating the likelihood and potential impact of each identified risk.
- Developing Mitigation Strategies:** Formulating strategies to minimize the impact of identified risks, such as contingency planning, insurance, and alternative sourcing strategies.
- Monitoring and Reporting:** Regularly monitoring progress and reporting on any emerging risks, allowing for timely intervention and corrective action.

**PPT Note:** A risk matrix visualizing the probability and impact of different risks would be a powerful visual aid.

## VI Key Takeaways

Accurate estimation and quantity surveying are pivotal for successful construction projects. Several estimation techniques exist, each with its strengths and limitations. Quantity surveying involves meticulous measurement, cost planning, and contract administration. Technology plays a crucial role in streamlining processes and improving accuracy. Effective risk management is essential for mitigating potential cost overruns and delays.

## VII FAQs

1. What is the difference between estimation and quantity surveying? Estimation focuses on predicting the overall project cost, while quantity surveying involves precisely measuring the

quantities of materials and labor They are closely related but distinct disciplines 2 How accurate should my cost estimate be The required accuracy depends on the project 4 phase Preliminary estimates are less precise than detailed estimates Accuracy also depends on the chosen estimation technique and the availability of information 3 What are the key skills required for a quantity surveyor Strong mathematical and analytical skills attention to detail excellent communication and proficiency in relevant software are essential 4 How can I improve the accuracy of my cost estimations Use detailed drawings and specifications employ appropriate estimation technique factor in contingency for unforeseen circumstances 5 What is the role of technology in modern quantity surveying Technology significantly improves efficiency and accuracy Software automates tasks improves collaboration and facilitates data analysis leading to better cost control and project management

Quantity surveyingNotes on Quantity SurveyingQuantity Surveying PracticeQuantity surveyingConstruction Quantity SurveyingQuantity Surveyor's Pocket BookQuantity SurveyingElements of Quantity SurveyingTaking Off Quantities: Civil EngineeringThe Art of Notes: Mastering Quantity Surveying for BeginnersNew Aspects of Quantity Surveying PracticeElementary Quantity SurveyingSpon's Landscape and External Works PriceQuantity Surveying, for the Use of Surveyors, Architects, Engineers and BuildersQuantity SurveyingTransactions and Notes of the Concrete InstituteQuantity Surveying for BuildersInternational Survey of Research Into Building Economics and Quantity Surveying 1976Quantity Surveyor's Pocket BookWillis's Elements of Quantity Surveying Gaye Kemsley Le Roux G. K. Scott-Montcrieff Chung Wai Calvin Keung John Leaning (writer on quantity surveying.) Donald Towey Duncan Cartlidge John Leaning Arthur James Willis Bryan Spain Instabooks Ai Duncan Cartlidge Sidney Ralphs Davis Langdon & Everest John Leaning Colin Dent Wilfrid Leonard Evershed Institute of Quantity Surveyors. Research Committee Duncan Cartlidge Sandra Lee

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quantity surveying practice the nuts and bolts is a practical guide to quantity surveying in building construction due to the increasing expectations of quality and performance from project clients quantity surveyors must improve their professional skills to solve a variety of intricate problems and disputes confronting the demanding construction market this practical book focuses on the basic concepts underlying the technical aspects of quantity surveying and contains many worked examples together with useful figures and real life cases to help readers digest and understand the essentials and become better professionals as a result this book is organised and structured into seven chapters chapter 1 is about the estimation of construction costs chapter 2 gives an overview of tendering and tender documentation chapter 3 examines the procedure of tender examination the approach to contract award chapter 4 reviews the whole process of an interim valuation the submission of a payment application by the contractor to the issuance of an interim valuation by the quantity surveyor identifying the key issues within the process chapter 5 examines the topic of construction claims chapter 6 addresses the cost control and monitoring of construction projects chapter 7 is about dispute management and three common resolution mechanisms namely mediation adjudication and arbitration are introduced this book is essential reading for students on quantity surveying and construction management programmes as well as the apc candidates pursuing the professional quantity surveying pathway it is also a useful reference for practicing quantity surveyors

the modern quantity surveyor qs plays a central role in the management of construction projects although the exact nature of the role depends on who employs the qs the professional quantity surveyor engaged by the client and the contractor s quantity surveyor have different roles to play in any construction project with the contractor s qs role extending beyond measurement to the day to day running of building projects estimating contract administration and construction planning as well as commercial cost and project management this book aims to provide readers with a practical guide into quantity surveying from a main contractor s perspective readers will acquire an understanding of the skills and competencies required by the contractor s quantity surveyor following a brief introduction the book s early chapters cover measurement methodology and the contractor s business with the rest of the chapters discussing commercial and contractual management of a construction project including day to day running from commencement through to completion in a highly practical way

the fourth edition of quantity surveyor's pocket book remains a must have guide for students and qualified practitioners its focused coverage of the data techniques and skills essential to the quantity surveying role makes it an invaluable companion for everything from initial cost advice to the final account stage key features and updates included in this new edition are as follows the impact of brexit on construction and public procurement new developments in digital construction renewed focus on ethics in the industry up to date analysis of nrm 1 2 and 3 latest practice guidance notes and government publications post contract administration a companion website with alternative approaches to taking off quantities using spreadsheets this text includes recommended formats for cost plans developer's budgets financial reports financial statements and final accounts this is the ideal concise reference for quantity surveyors project and commercial managers and students of any of the above

this book provides a thorough understanding of the general principles of measurement for taking off quantities an essential guide to any quantity surveyor architect or engineer taking off quantities civil engineering demonstrates through a series of detailed worked examples from a range of civil engineering projects how the measurement techni

in this fourth edition of new aspects of quantity surveying practice renowned quantity surveying author duncan cartlidge reviews the history of the quantity surveyor examines and reflects on the state of current practice with a concentration on new and innovative practice and attempts to predict the future direction of quantity surveying practice in the uk and worldwide the book champions the adaptability and flexibility of the quantity surveyor whilst covering the hot topics which have emerged since the previous edition's publication including the rics futures publication building information modelling bim mergers and acquisitions a more informed and critical evaluation of the nrm greater discussion of ethics to reflect on the renewed industry interest and a new chapter on dispute resolution as these issues create waves throughout the industry whilst it continues its global growth in emerging markets such reflections on qs practice are now more important than ever the book is essential reading for all quantity surveying students teachers and professionals it is particularly suited to undergraduate professional skills courses and non cognate postgraduate students looking for an up to date understanding of the industry and the role

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willis s elements of quantity surveying has become a standard text in the teaching of building measurement a core part of the curriculum for quantity surveyors particularly in the latter editions it has eclipsed the other books on building measurement partly because of the heritage but mostly because of the logical approach and copious use of examples to guide the student the new 11th edition has been fully updated to recognise the introduction of the new rules of measurement nrm by the royal institution of chartered surveyors rics which reflect the way the modern qs works and provide a standard set of measurement rules that are understandable by all those involved in a construction project key features first published in 1935 has been used by many generations of quantity surveyors and lecturers new edition fully updated to include the rics new rules of measurement nrm many examples updated to reflect current qs practice revisers have extensive experience of teaching the subject through college of estate management courses

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