

# ESTIMATOR'S PIPING MAN-HOUR MANUAL

FIFTH  
E D I T I O N

JOHN S. PAGE



ELIMINATES GUESSWORK AND ENABLES YOU  
TO TURN OUT FAST, ACCURATE PIPING  
LABOR ESTIMATES

# Estimators Man Hour Manual

**John Mullen,R. Peter Davison**



## **Estimators Man Hour Manual:**

**Estimator's Piping Man-Hour Manual** John S. Page, 1999-05-24 This reference provides reliable piping estimating data including installation of pneumatic mechanical instrumentation used in monitoring various process systems This new edition has been expanded and updated to include installation of pneumatic mechanical instrumentation which is used in monitoring various process systems     *Estimator's Equipment Installation Man-Hour Manual* John S. Page, 1999-05-24 Production and composite rate Boilers and heaters Classification equipment Compressors and air dryers Conveyors and bucket elevators Crystallizers Dow therm units Dry material blenders and feeders Dryers and flakers Dust collectors Ejectors Extractors Fans and blowers Filters Flotation machines Gas holders Generators Heat exchangers evaporators and condensers Heating ventilating air conditioning and air handling units Hoist overhead electric Mixers and blenders Pumps Scales Separators Size reduction equipment Thickeners Vessels reactors and tanks Waste treating equipment Water treating equipment Plate welding Insulation and waterproofing Supports Pipe connections Earthwork Concrete Scaffolding Weight tables Sample estimating form     Estimator's Man-Hour Manual on Heating, Air Conditioning, Ventilating, and Plumbing John S. Page, 1978-03-03 The author has had wide experience in cost and labour estimating having worked for some of the largest construction firms in the world He has made and assembled numerous types of estimates including lump sum hard priced and scope and has conducted many time and method studies in the field and in fabricating shops John S Page has received the Award of Merit from the American Association of Cost Engineers in recognition of outstanding service and cost engineering     **Estimator's Electrical Man-Hour Manual** John S. Page, 1999-05-24 This manual s latest edition continues to be the best source available for making accurate reliable man hour estimates for electrical installation This new edition is revised and expanded to include installation of electrical instrumentation which is used in monitoring various process systems     Estimator's General Construction Manhour Manual John S. Page, 1977-01-01 This manual provides the reader with an accurate and convenient method for estimatig direct labor for general contrsuction work for any given system plant or location Though this book the reader has a reliable process of obtaining and streamlining an efficient model of operation     *Cost Estimating Manual for Pipelines and Marine Structures* John S. Page, 1977-01-01 From the Book Preface This manual has been compiled to provide time frames labor crews and equipment spreads to assist the estimator in capsulizing an estimate for the installation of cross country pipelines marshland pipelines nearshore and surf zone pipelines submerged pipelines wharfs jetties dock facilities single point morring terminals offshore drilling and production platforms and equipment and appurtenances installed thereon The time frames and labor and equipment spreads which appear throughout this manual are the result of many time and method studies conducted under varied conditions and at locations throughout the world these time frames and labor and equipment spreads reflect a complete unbiased view of all operations involved When one is engaged in compiling an estimate from any information furnished by others as is the case with this manual he

should view it in an objective light giving due consideration to the nature of the project at hand and evaluating all items that may affect the productivity of labor and all other elements involved

**Estimator's Piping Man-hours Tool** Gustavo Cinca, 2023-12-26 Estimator's Piping Man hours Tool Essential Guide for Estimating Labor Hours in Carbon Steel Process Piping Projects This practical manual provides a clear and precise methodology for estimating man hours in carbon steel process piping installations Designed for engineers designers estimators sales professionals installers and business owners this book is an essential tool for accurate project planning and cost estimation The Power of Verified Man hour Tables One of the biggest challenges in piping installation estimation is having reliable field tested data This manual includes 14 carefully verified tables built from real world projects across chemical plants refineries pipelines gas compressor stations and thermal power plants Each table provides accurate labor hour data helping professionals avoid guesswork and reduce estimation errors Why This Manual is Essential for You Precise Man hour Calculation Tables 14 verified tables refined through practical experience in multiple industrial projects Covers a wide range of piping tasks and conditions ensuring realistic estimates Reliable and Practical Estimating Methods Provides a structured step by step approach to calculating direct labor hours Accounts for actual working time and normal non contributory time Real World Calculation Examples Walks through complete piping installation estimates applying table data and adjustment factors for different project conditions A Must Have Tool for Estimators and Business Owners Empowers professionals with a proven methodology to optimize project planning Helps avoid costly miscalculations and improves profitability With 45 years of industry experience the author has worked as a Project Manager Site Manager and President of a construction and industrial assembly company His extensive hands on expertise ensures that the data and methods in this book are practical reliable and field tested Start today Scroll to the top of the page and click the BUY NOW button

*The Engineer's Cost Handbook* Richard E. Westney, 1997-02-26 Offers coverage of each important step in engineering cost control process from project justification to life cycle costs The book describes cost control systems and shows how to apply the principles of value engineering It explains estimating methodology and the estimation of engineering engineering equipment and construction and labour costs delineates productivity and cash flow analysis and more

Construction Estimating Reference Data Ed Sarviel, 1993 Provides the 300 most useful manhour tables for practically every item of construction Labor requirements are listed for sitework concrete work masonry steel carpentry thermal and moisture protection doors and windows finishes mechanical and electrical Each section details the work being estimated and gives appropriate crew size and equipment needed This new revised edition contains National Estimator a computer estimating program This fast powerful program and complete instructions are yours free on high density 3 1 2 disk when you buy the book

*Cost Estimator's Reference Manual* Rodney D. Stewart, Richard M. Wyskida, James D. Johannes, 1995-04-03 In today's hypercompetitive global marketplace accurate cost estimating is crucial to bottom line results Nowhere is this more evident than in the design and development of new products and services Among

managing engineers responsible for developing realistic cost estimates for new product designs the number one source of information and guidance has been the Cost Estimator's Reference Manual Comprehensive authoritative and practical the Manual instructs readers in the full range of cost estimating techniques and procedures currently used in the fields of development testing manufacturing production construction software general services government contracting engineering services scientific projects and proposal preparation The authors clearly explain how to go about gathering the data essential to preparing a realistic estimate of costs and guide the reader step by step through each procedure This new Second Edition incorporates a decade of progress in the methods procedures and strategies of cost estimating All the material has been updated and five new chapters have been added to reflect the most recent information on such increasingly important topics as activity based costing software estimating design to cost techniques and cost implications of new concurrent engineering and systems engineering approaches to projects Indispensable to virtually anyone whose work requires accurate cost estimates the Cost Estimator's Reference Manual will be especially valuable to engineers estimators accountants and contractors of products projects processes and services to both government and industry The essential ready reference for the techniques methods and procedures of cost estimating COST ESTIMATOR'S REFERENCE MANUAL Second Edition Indispensable for anyone who depends on accurate cost estimates for engineering projects the Cost Estimator's Reference Manual guides the user through both the basic and more sophisticated aspects of the estimating process Authoritative and comprehensive the Manual seamlessly integrates the many functions accounting financial statistical and management of modern cost estimating practice Its broad coverage includes estimating procedures applied to such areas as Production Software Development General services Testing Government contracting Manufacturing Engineering Proposal preparation Scientific projects Construction This updated and expanded Second Edition incorporates all the most important recent developments in cost estimating such as activity based costing software estimating design to cost techniques computer aided estimating tools concurrent engineering and life cycle costing For engineers estimators accountants planners and others who are involved in the cost aspects of projects the Cost Estimator's Reference Manual is an invaluable information source that will pay for itself many times over

### **Industrial Process Plant Construction Estimating and Man-Hour Analysis**

Kenneth Storm, 2019-05-22 Industrial Process Plant Construction Estimating and Man Hour Analysis focuses on industrial process plants and enables the estimator to apply statistical applications estimate data tables and estimate sheets to use methods for collecting organizing summarizing presenting and analyzing historical man hour data The book begins with an introduction devoted to labor productivity measurement collection of historical data verification of data estimating methods and factors affecting construction labor productivity and impacts of data It goes on to explore construction statistics and mathematical spreadsheets followed by detailed scopes of work ranging from coal fired power plants to oil refineries and solar plants among others Man hour schedules based on historical data collected from past installations in industrial process

plants are also included as well as a detailed glossary Excel and mathematical formulas area and volume formulas metric standard conversions and boiler man hour tables Industrial Process Plant Construction Estimating and Man Hour Analysis aids industrial project managers estimators and engineers with the level of detail and practical utility for today s industrial operations and is an ideal resource for those involved in engineering technology or construction estimation Identify quantity differences with the comparison method and eliminate impacts between proposed and previously installed equipment Understand how to implement statistical and estimating methods scopes of work man hour tables and estimate sheets to produce direct craft man hour estimates RFPs and field change orders Set up and utilize Excel templates to automate statistical functions that will perform mathematical applications key to process plant construction

*Evaluating Contract Claims* John Mullen,R. Peter Davison,2019-08-28 An important guide to the quantification of contract claims in the construction industry updated third edition The substantially expanded third edition of *Evaluating Contract Claims* puts the spotlight on the quantification of claims in the construction industry after liability has been established including by reference to the terms of several standard forms of contract in common use The authors clearly demonstrate the potential alternative approaches to quantification the processes principles and standard of analysis required to produce acceptable claims for additional payment The third edition covers a number of heads claims not considered in previous editions and offers an important guide for those working with building or engineering contracts *Evaluating Contract Claims* explains in detail how the base from which evaluation of additional payments may be established the effect of changes on the programme of work and the sources of information for evaluation of additional payments The book also contains information for evaluating the direct consequences of change in terms of the impact on unit rates and evaluating of the time consequences of change in terms of prolongation disruption acceleration and more This important book Concentrates on the quantification of contract claims after liability has been established Offers a guide that is appropriate for any form of contract Considers the potential alternative approaches to quantification of different heads of claim Contains the principles and methods that should be reflected in the evaluation of claim quantum Includes the standard of substantiation which may be required Presents information that is equally applicable in both building and engineering disputes Is substantially expanded from its previous editions Written for construction and engineering contract administrators project managers quantity surveyors and contract consultants *Evaluating Contract Claims* offers a revised third edition to the essential guide for quantifying claims in the construction industry once liability has been established

*Petroleum Refining Design and Applications Handbook, Volume 5* A. Kayode Coker,2023-07-13 PETROLEUM REFINING With no new refineries having been built in decades companies continue to build onto or reverse engineer and re tool existing refineries With so many changes in the last few years alone books like this are very much in need There is truly a renaissance for chemical and process engineering going on right now across multiple industries This fifth and final volume in the *Petroleum Refining Design and*

Applications Handbook set this book continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Besides the list below this groundbreaking new volume describes blending of products from the refinery applying the ternary diagrams and classifications of crude oils flash point blending pour point blending aniline point blending smoke point and viscosity blending cetane and diesel indices The volume further reviews refinery operational cost cost allocation of actual usage project and economic evaluation involving cost estimation cash flow involving return on investment net present values discounted cash flow rate of return net present values payback period inflation and sensitivity analysis and so on It reviews global effects on the refining economy carbon tax carbon foot print global warming potential carbon dioxide equivalent carbon credit carbon offset carbon price and so on It reviews sustainability in petroleum refining and alternative fuels biofuels and so on impact of the overall greenhouse effects carbon capture and storage in refineries process intensification in biodiesel biofuel from green diesel acid gas removal and emerging technologies carbon capture and storage gas heated reformer unit pressure swing adsorption process steam methane reforming for fuel cells grey blue and green hydrogen production new technologies for carbon capture and storage carbon clean process design refinery of the future refining and petrochemical industry characteristics The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples and it includes an invaluable glossary of petroleum and petrochemical technical terminologies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world s foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area

*Estimator's Piping Man Hour Manual* Page JS.,1979

**Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents** A. Kayode Coker,2024-06-08 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon Ludwig s classic text to further enhance its use as a

chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format

*Estimator's Piping Man-Hours Tool* Gustavo Miguel Cinca, 2018-07-05

Estimator's Piping Man hours Tool Estimating Man hours for a Project Manual of Man hours Examples The author of this Manual has an expertise of 45 years in his professional work as Head of Work Project Manager and finally as president of a Company of Constructions and Industrial Assemblies in different plants of Chemical Processes Refineries Pipelines Gas Compressors and Thermal Power plants of their country and abroad exercising the direction of the works and the control of the resources used for their execution particularly in the case of installation of piping This Manual that gives the Reader is the fruit of that Technical Expertise Tables for calculating manpower in Piping The direct man hours indicated in the 11 eleven tables of this Manual have been verified by the Author during the course of the Piping assemblies of the different installations Estimating Man hours for piping installation It is important to understand that there are no identical projects or jobs in this business and that it is not possible to automate or copy The approach to respect is that any estimate work should be serious and professional this Manual provides the Reader with a precise and convenient method to estimate the direct work in Piping installations for each specific project In the content of this book the Reader will access simple and reliable procedures to realize the estimates Examples of calculating Piping installations In the Manual the author presents complete calculation examples of Piping installations based on the man hours indicated by the tables to later apply the corrections or adjustments needed for each Project Estimators and Proprietors of Companies The purpose of this publication is to give the estimator and the business owner a reliable instrument for the unique task of estimating man hours with precision

U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974

**Buildings Bibliography** United States. General Services Administration. Central Office Library, 1968

*Encyclopedia of Chemical Processing and Design* John J. McKetta Jr, 1981-01-01 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

**Estimator's Piping Man-Hours Tool** Gustavo Miguel Cinca, 2018-02-05



Estimator's Piping Man hours Tool Estimating Man hours for a Project Manual of Man hours Examples The author of this Manual has an expertise of 45 years in his professional work as Head of Work Project Manager and finally as president of a Company of Constructions and Industrial Assemblies in different plants of Chemical Processes Refineries Pipelines Gas Compressors and Thermal Power plants of their country and abroad exercising the direction of the works and the control of the resources used for their execution particularly in the case of installation of piping This Manual that gives the Reader is the fruit of that Technical Expertise Tables for calculating manpower in Piping The direct man hours indicated in the 11 eleven tables of this Manual have been verified by the Author during the course of the Piping assemblies of the different installations Estimating Man hours for piping installation It is important to understand that there are no identical projects or jobs in this business and that it is not possible to automate or copy The approach to respect is that any estimate work should be serious and professional this Manual provides the Reader with a precise and convenient method to estimate the direct work in Piping installations for each specific project In the content of this book the Reader will access simple and reliable procedures to realize the estimates Examples of calculating Piping installations In the Manual the author presents complete calculation examples of Piping installations based on the man hours indicated by the tables to later apply the corrections or adjustments needed for each Project Estimators and Proprietors of Companies The purpose of this publication is to give the estimator and the business owner a reliable instrument for the unique task of estimating man hours with precision

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