



ESTIMATOR'S MAN-HOUR MANUAL

ON

HEATING
AIR CONDITIONING
VENTILATING
AND PLUMBING

John S. Page

SECOND EDITION

Eliminates guesswork and enables you to turn out fast and accurate mechanical and plumbing labor estimates



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Estimating Manhour Manual

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Estimating Manhour 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 General Construction Manhour Manual John S. Page, 1977-01-01 This manual provides the reader with an accurate and convenient method for estimating direct labor for general construction work for any given system plant or location. Through this book the reader has a reliable process of obtaining and streamlining an efficient model of operation.

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.

Industrial Piping and Equipment Estimating Manual Kenneth Storm, 2017-06-23 Industrial Piping and Equipment Estimation Manual delivers an invaluable resource for day to day operations. Packed full of worksheets covering combined and simple cycle power plants, refineries, compressor stations, ethanol, hydrogen and biomass plants, this reference helps the construction engineer and estimator learn how to create bids where scope and quantity differences can be identified and project impacts estimated. Beginning with an introduction devoted to labor productivity measurement, estimating methods and factors affecting construction labor productivity and impacts of overtime, the author then explores equipment through hands on estimation tables including sample estimates and statistical applications. The book rounds out with a glossary, abbreviations list, formulas and metric standard conversions and is an ideal reference for estimators, engineers and managers with the level of detail and equipment breakdown necessary for today's industrial operations. Includes day to day worksheets to help users estimate equipment and piping for any plant or refinery project. Presents the comparison method to estimate similarities and differences between proposed and previously installed equipment. Helps users understand and produce more accurate direct costs with sample estimates.

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 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 Electrical Man-hour Manual* John S.

Page,James G. Nation,1959 *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 *Industrial Construction Estimating Manual* Kenneth Storm,2020-05-27

Industrial Construction Estimating Manual focuses on industrial process plants and enables the contractor subcontractor and engineer to use methods models procedures formats and technical data for developing industrial process plant construction estimates The manual begins with an introduction devoted to labor data collection verification of data coding productivity measurement the unit quantity model and computer aided cost estimating It goes on to provide information on construction materials database systems work estimating computer aided estimating detailed labor estimates bid assurance and detailed applications to construction Practical examples based on historical data collected from past installations are also included as well as a detailed glossary Excel and mathematical formulas metric standard conversions area and volume formulas and boiler man hour tables Industrial Construction Estimating Manual aids contractors subcontractors and engineers with a balance detailed estimating method using the unit quantity model and is an excellent resource for those involved in engineering technology and construction estimating Provides a detailed estimating method using the unit quantity model to prepare construction estimates Delivers information on construction materials databases labor estimates computer aided estimating bid assurance and applications to construction Utilizes historical data from a database of previous similar work calculates material cost and labor by category and produces both summary and detailed man hour and cost estimates

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

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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 Hour Manual John S. Page,James G.

Nation,1958 Estimator's Piping Man-Hours Tool Gustavo Cinca,2018-04-24 This publication is an extremely useful tool to budget the amount of man hours to consume in the process pipe assemblies I argue that a reliable estimate of the number of man hours required for the execution of a project is an essential need for the optimum functioning of any construction or Installation Company Use this Tool to budget the amount of man hours direct to consume in your offers

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Electrical Man-Hour Manual Sapna Soni,2016 The man hour that follow are the product of thousands of dollars spent for time studies and research analysis in this field We believe that it will decrease the chance of error and allow the partially experienced estimator a greater advantage to more accurately determine the actual direct labor cost for the complete installation of mechanical equipment for a given industrial or chemical plant This manual 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 Branch service and feeder rough in Branch service and feeder wiring Wiring devices switches outlets and receptacles Surface metal raceway and branch bus way Lighting fixtures Underfloor ducts Bus ducts Electric heating and ventilating Panel boards and accessories Switchboards and accessories Switches starters controls and gutters Motor control centers Motor controls and motors Power transformers Outside overhead systems Outside underground systems Communications and signal systems Electrical instrument installation Anchors fasteners hangers and supports Demolition excavation and concrete Technical information

Estimator's Piping Man-hours Tool Gustavo Miguel Cinca,2018-03-23 This publication is an extremely useful tool to budget the amount of man hours to consume in the process pipe assemblies I argue that a reliable estimate of the number of man hours required for the execution of a project is an essential need for the optimum functioning of any construction or Installation Company Use this Tool to budget the amount of man hours direct to consume in your offers

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