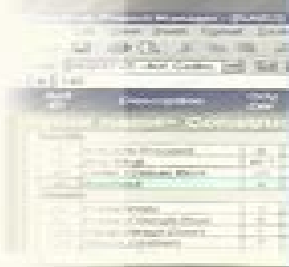


REAL WORLD CONSTRUCTION PROJECT SCHEDULING



Activity Codes, Budget, & Resources

Activity Codes, Budget, & Resources

Activity	Orig. Cost	Total Float	Early Start	Early Finish	Budgeted Cost
Foundation	0	0	2000000	2000000	0
Framing	41.1	0	2000000	2000000	18000
Roofing	20	50	2000000	2000000	1,200
Siding	4	0	1000000	2000000	1,200
Interior Finishes	3	0	2000000	2000000	1,200
Exterior Finishes	3	0	2000000	2000000	1,200
Total	71.1	50	2000000	2000000	1,200



JOHN BUTTELWERTH

Second Edition

www.johnwyattpublishing.com

ISBN: 978-0-9975255-5-7

Real World Construction Scheduling

John Buttelwerth



Real World Construction Scheduling:

Real World Construction Project Scheduling John Buttelerwerth, 2018-11 Real World Construction Project Scheduling is called real world because it was written drawing upon the author's 35 years of experience consulting with contractors to help them meet their construction scheduling needs. He knows how contractors use scheduling, what's important to them, and what is not. This text can be combined with any one of the author's four Real World scheduling software books covering either P6 MS Project, Phoenix, or Asta Elecosoft Powerproject softwares for the lab portion of the course available at www.johnwyattpublishing.com to create a complete construction scheduling course. Combined together in a curriculum, students will gain a confident real world knowledge of construction project scheduling. Using real world examples, this text takes the student through a typical project, learning the planning and scheduling concepts necessary to successfully deliver a project on time. At the time of this writing, it is the only scheduling text that fully investigates the use of start to start and finish to finish activity relationship types when teaching students to hand draw precedence network diagrams and to hand calculate the critical path of the schedule, including all starts and finishes, total float, and free float. If the completion of a construction project runs late, it is very often the result of poor planning in the pre design and/or design phase of the project. This text fully explores the proper use of planning and scheduling throughout all phases of the project delivery, including pre design and design through to occupancy and project closeout. Packaged with the text includes drawings for a sample project used throughout the text so the students can experience a real world application of the concepts covered in the text. Real World Construction Scheduling Jim Coombes, 1990 *Phoenix Project Manager Real World Scheduling* John Buttelerwerth (Illustrator), 2015-07-01 Phoenix Real World Scheduling is called real world because the author wrote it drawing upon his 30 years of experience consulting with contractors to help them meet their construction scheduling software needs. He knows how contractors use scheduling software, what's important to them, and what is not. Phoenix Project Manager is considered by many to be the best replacement for SureTrak. This manual has been tested and retested in both the classroom and the company training room. It will guide you through the many features of Phoenix Project Manager and teach you how to use the software the way contractors use it. Other software manuals are often hundreds of pages long, filled with dense text that wastes your time trying to cover every corner and nuance of the software, ultimately leaving readers more confused than before they started. Phoenix Real World Scheduling assumes that the reader has no previous exposure to the software and takes the reader through the process of creating a schedule, covering the same features that a contractor would include on their typical schedule. This includes creating and saving the schedule, covering numerous formatting options to customize the look of the schedule, working with calendars, including 50% and 100% weather calendars, then activity coding the schedule to organize the activities. Different views of the schedule are explored, and from there the schedule is updated, covering all possible update scenarios that may actually occur. The updated schedule is stored using Storepoints and then compared side

by side to the original using Phoenix's very unique Comparisons feature A custom Filter is then created to produce a Six Week Look Ahead schedule With this manual and a few hours of your time you will be ready to effectively use Phoenix Project Manager on a real project Real Life Construction Management Guide From A - Z Jamil Soucar,2023-12-04 How many of us have been told after we graduated that what you studied in books is one thing and how it works in reality is something different This book is a complete guide that takes you through all phases of a project from its inception through design all the way to construction completion teaching the concepts from a real life everyday perspective It will give you step by step best practices injecting that element that no one talks about human nature egos and agendas Don't kid yourself when you manage projects you will be managing people more than construction Whether you are managing projects as an Owner's representative for a Contractor if you are an Architect or an Owner who wishes to understand all aspects of projects Whether you just started or already a practicing professional this book will benefit you immediately The book is an easy read style that feels like a conversation more than a lecture *Construction Project Scheduling and Control* Saleh A. Mubarak,2015-03-04 Bad scheduling can doom a construction project from the start *Construction Project Scheduling and Control* provides a comprehensive examination of the analytical methods used to devise a reasonable efficient and successful schedule for construction projects of all sizes This updated third edition contains new information on building image modeling BIM and its relationship to project scheduling and control as well as thorough coverage of the latest developments in the field Written by a career construction professional this informative text introduces students to new concepts in CPM scheduling including the author's own Dynamic Minimum Lag technique The expanded glossary and acronym list facilitate complete understanding and the numerous solved and unsolved problems help students test their knowledge and apply critical thinking to issues in construction scheduling A complete instructor's manual provides solutions to all problems in the book test questions for each chapter and additional exam questions for more comprehensive testing The entire success of a construction process hinges on an efficient well thought out schedule which is strictly defined while allowing for inevitable delays and changes This book helps students learn the processes tools and techniques used to make projects run smoothly with expert guidance toward the realities of this complex function Discover realistic scheduling solutions and cutting edge methods Learn the duties responsibilities and techniques of project control Get up to date on the latest in sustainability BIM and lean construction Explore the software tools that help coordinate scheduling Scheduling encompasses everything from staff requirements and equipment needs to materials delivery and inspections requiring a deep understanding of the process For the student interested in construction management *Construction Project Scheduling and Control* is an informative text on the field's current best practices **Computer Integrated Construction Project Scheduling** John Buttelerwerth,2005 Written in a style that is meant to be open and inviting to the reader with shorter paragraphs and interesting illustrations this book provides a single source comprehensive examination of construction project scheduling Content begins with introducing

concepts of the construction industry to provide the necessary framework and background then fully discusses planning and scheduling topics in detail It offers extensively reviewed coverage on the most current version of SureTrak Software thorough coverage of manual network diagramming and CPM calculations and has built into it a capstone project The book includes an abundance of real world examples of numerous scheduling exercises including 17 pages of full size drawings and schedules that are part of the exercises Additionally the information is presented modularly in such a way that it can be customized to fit any learning situation Covers planning and scheduling including the determination of project activities logic and durations drawing precedence network diagrams and manually calculating CPM schedules creating and updating computer generated schedules and schedule reports Well suited to be used as a guide or reference by construction practitioners such as Project managers Superintendents and Construction managers **P6 Real World Scheduling** John

Buttelwerth,2017-08-17 P6 Real World Scheduling is called real world because the author wrote it drawing upon his 30 years of experience consulting with contractors He knows how contractors use scheduling software what s important to them and what is not Tested and retested in the classroom It will guide you through some of the quirks of P6 as well as teach you how to use the software the way contractors use it Other software manuals are often hundreds of pages long filled with dense text that wastes your time trying to cover every corner and nuance of the software ultimately leaving readers more confused than before they started P6 Real World Scheduling is written for Oracle s Primavera P6 Professional software using a local or multi user database It was written using version 15.1 but can be applied to previous and post versions of P6 with little concern Rest assured that it will help the reader clearly grasp the many sometimes puzzling nuances of this enterprise based software such as the use of the OBS Organizational Breakdown Structure the EPS Enterprise Project Structure the lack of traditional save features user security profiles and its uncommon import export components P6 Real World Scheduling assumes that the reader has no previous exposure to the software and takes the reader through the process of creating a schedule covering the same features that a contractor would include on their typical schedule This includes creating and saving the schedule covering numerous formatting options to customize the look of the schedule working with calendars including 50% and 100% weather calendars then activity coding the schedule to organize the activities into various Work Breakdown Structures Different views of the schedule are explored and from there the schedule is resource loaded and cost loaded including a real world analysis of an over allocation of resources The schedule is then Baselined and updated covering all possible update scenarios that may actually occur With this manual and a few hours of your time you will be ready to effectively use Oracle s Primavera s P6 Professional on a real project *Microsoft Project 2013 - Real World Scheduling* John Buttelwerth (Illustrator),2015-07-01 Microsoft Project 2013 Real World Scheduling is called real world because the author wrote it drawing upon his 30 years of experience consulting with contractors to help them meet their construction scheduling software needs He knows how contractors use scheduling software what s important to them and what is not This

manual has been tested and retested in both the classroom and the company training room It will guide you thru some of the quirks of MS Project 2013 as well as teach you how use the software the way contractors use it Other software manuals are often hundreds of pages long filled with dense text that wastes your time trying to cover every corner and nuance of the software ultimately leaving readers more confused than before they started Microsoft Project 2013 Real World Scheduling assumes that the reader has no previous exposure to the software and takes the reader through the process of creating a schedule covering the same features that a contractor would include on their typical schedule This includes creating and saving the schedule covering numerous formatting options to customize the look of the schedule working with calendars including 50% and 100% weather calendars then activity coding the schedule to organize the tasks using both Custom Task Groups and Summary Tasks Different views of the schedule are explored and from there the schedule is resource loaded and cost loaded including a real world analysis of an over allocation of resources The schedule is then Baselined and updated covering all possible update scenarios that may actually occur With this manual and a few hours of your time you will be ready to effectively use MS Project 2013 on a real project

A Contractor's Guide to Planning, Scheduling, and Control Len Holm, 2022-02-02 A MUST HAVE PRACTICAL GUIDE THAT CONNECTS SCHEDULING AND CONSTRUCTION PROJECT MANAGEMENT In A Contractor s Guide to Planning Scheduling and Control an experienced construction professional delivers a unique and effective approach to the planning and scheduling responsibilities of a construction project manager superintendent or jobsite scheduler The author describes the complete scheduling cycle from preconstruction and scheduling through controls and closeout from the perspective of real world general contractors and scheduling professionals Filled with tools and strategies that actually help contractors build projects and light on academic jargon and terminology that s not used in the field the book includes examples of real craft workers and subcontractors like electricians carpenters and drywallers to highlight the concepts discussed within Finally an extensive appendix rounds out the book with references to additional resources for the reader This comprehensive guide includes Thorough introductions to construction contracting lean construction planning subcontractor management and more A comprehensive exploration of a commercial case study that s considered in each chapter connecting critical topics with a consistent through line End of chapter review questions and applied exercises Access to a companion website that includes additional resources and for instructors solutions additional case studies sample estimates and sample schedules Perfect for upper level undergraduate students in construction management and construction engineering programs A Contractor s Guide to Planning Scheduling and Control is also an irreplaceable reference for general contractors and construction project management professionals

Megaprojects Construction Management in Volatile Markets Dr. Manoj Kumar Varma, 2025-03-09 The book provides a comprehensive guide to managing megaprojects in today s volatile and unpredictable market environment Megaprojects large scale capital intensive infrastructure projects offer both great opportunities and significant challenges

Effective management is essential to navigate risks such as budget overruns delays and fluctuating material costs This book addresses key aspects of megaproject management including financial sustainability climate challenges and the transformative role of Artificial Intelligence AI Managing Complex Megaprojects The book tackles the challenges faced at every stage of a megaproject from planning and design to execution and completion It offers practical strategies for managing common issues such as budget overruns project delays and quality control ensuring projects are delivered successfully Financial Sustainability in Uncertain Markets Financial viability is crucial for the success of megaprojects especially in volatile markets The book emphasizes financial risk management forecasting and cost control It provides tools like financial models cost estimation techniques and scenario planning to help managers ensure that projects stay within budget despite market fluctuations Project Viability and Risk Mitigation The book discusses how to assess and manage project viability beyond cost and schedule concerns It highlights resource management stakeholder expectations and public perception as critical factors for success Frameworks for identifying and mitigating risks throughout the project lifecycle are provided to help prevent issues and maintain project quality Tackling Climate Challenges Sustainability is a major concern in the construction industry and the book offers solutions for reducing environmental impact It explores eco friendly materials green construction technologies and strategies to ensure that megaprojects are environmentally responsible while maintaining their long term viability AI in Megaproject Management AI is reshaping how megaprojects are managed The book explores the role of AI in enhancing project planning scheduling cost estimation and risk management With real time data analysis and predictive insights AI tools help project managers make informed decisions and improve project efficiency Innovative Management Strategies To address the increasing complexity of megaprojects the book introduces innovative strategies like lean construction principles and project life cycle management These approaches optimize resources streamline execution and reduce costs helping project teams manage projects more effectively Global Case Studies and Lessons Through global case studies the book provides practical examples of both successful and failed megaprojects These lessons offer insights into managing large scale projects and adapting to diverse cultural economic and regulatory environments Collaboration Leadership and Legal Considerations Effective collaboration and leadership are essential in managing megaprojects The book discusses the importance of clear communication and teamwork It also addresses legal and ethical considerations offering guidance on managing complex construction contracts and procurement processes Ultimately the book is a vital resource for professionals involved in megaproject management It equips project managers contractors engineers and stakeholders with the tools strategies and knowledge needed to successfully navigate the complexities of megaprojects in today s fast paced and ever changing market

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book bridges the gap between academic knowledge and real world construction management I used it as a reference for my master s thesis and it provided exceptional insights 8 The Ultimate Guide to Modern Construction Management Every construction manager engineer and project leader should own this book The section on digital twins sustainability and AI driven project management is groundbreaking 9 Invaluable for Career Growth The ABCDE P framework helped me map my career progression in construction I now have a clear roadmap to move from mid level management to executive leadership 10 Essential for Sustainable Construction The focus on green buildings lifecycle assessment and carbon footprint reduction is exactly what the industry needs This book provides practical sustainable solutions for modern construction 11 Excellent for Business Owners Contractors I own a construction firm and this book has transformed the way we manage projects The cost control strategies risk management tips and procurement insights are invaluable The construction industry has undergone a remarkable transformation from the early centuries to the present day evolving in response to technological advancements economic shifts and societal needs From rudimentary structures built with primitive tools to modern skyscrapers incorporating cutting edge artificial intelligence and automation the industry s journey is a testament to human ingenuity and resilience In ancient times construction was primarily a labour intensive endeavour with civilisations such as the Egyptians Romans and Greeks developing architectural marvels that still stand today The pyramids of Egypt the Roman aqueducts and the Parthenon in Greece showcased early engineering brilliance achieved through skilled artisanry and innovative construction methods The Middle Ages saw the emergence of Gothic architecture characterised by intricate designs and towering cathedrals demonstrating advancements in engineering and materials The Renaissance period further refined construction techniques emphasising symmetry proportion and aesthetic appeal The Industrial Revolution of the 18th and 19th centuries marked a turning point in construction history The introduction of mechanisation steam power and new materials such as iron and steel revolutionised building methods Urbanisation and infrastructure development surged giving rise to railways bridges and modern cityscapes The 20th century witnessed unprecedented advancements including the advent of reinforced concrete prefabrication and skyscraper construction The post World War II era brought rapid urban expansion necessitating improved project management techniques and regulatory frameworks to ensure safety and efficiency In recent decades digital technology has reshaped the construction landscape Building Information Modelling BIM automation and artificial intelligence have streamlined project planning reducing costs and enhancing precision Sustainable construction practices have gained prominence addressing environmental concerns and promoting energy efficiency Looking ahead the next 25 years promise further innovation with artificial intelligence robotics and smart materials leading the way The integration of 3D printing drone technology and augmented reality is poised to revolutionise construction methodologies making them more efficient sustainable and adaptable to global challenges This book offers an in depth exploration of construction management providing insights into historical developments contemporary practices and future trends By

understanding past achievements and embracing emerging technologies industry professionals can navigate the evolving landscape and contribute to a more innovative and sustainable built environment

Microsoft Project 2016 - Real World Scheduling, 2017-12-31 Microsoft Project 2016 Real World Scheduling is called real world because the author wrote it drawing upon his 30 years of experience consulting with contractors to help them meet their construction scheduling software needs He knows how contractors use scheduling software what s important to them and what is not This manual has been tested and retested in both the classroom and the company training room It will guide you thru some of the quirks of MS Project 2016 as well as teach you how use the software the way contractors use it Other software manuals are often hundreds of pages long filled with dense text that wastes your time trying to cover every corner and nuance of the software ultimately leaving readers more confused than before they started This manual can easily be used with the MS Project 2013 and 2010 software Microsoft Project 2016 Real World Scheduling assumes that the reader has no previous exposure to the software and takes the reader through the process of creating a schedule covering the same features that a contractor would include on their typical schedule This includes creating and saving the schedule covering numerous formatting options to customize the look of the schedule working with calendars including 50% and 100% weather calendars then activity coding the schedule to organize the tasks using both Custom Task Groups and Summary Tasks Different views of the schedule are explored and from there the schedule is resource loaded and cost loaded including a real world analysis of an over allocation of resources The schedule is then Baselined and updated covering all possible update scenarios that may actually occur With this manual and a few hours of your time you will be ready to effectively use MS Project 2016 on a real project

Construction Planning and Scheduling Jimmie Hinze, 2004 Presents an introduction to the techniques of construction scheduling as well as a range of related topics This book is appropriate for undergraduate courses in Construction Planning and Scheduling offered by Departments of Civil Engineering Building Construction Construction Science Construction Management and Civil Technology

"CONSTRUCTION PROJECTS - TOWARDS SUCCESSFUL COMPLETION": Practical Construction Project Management Strategies Sridhara Munimakula, 2024-12-23 This book Construction Projects SUCCESSFULLY COMPLETED Practical Project Management Strategies translates my 30 Plus years of experience in Construction Projects particularly 12 Residential Estates apart from Institutional Hospitality Shopping mall Community and Commercial Buildings I have put down in this book what I have learned researched conceived implemented and practiced for the best outcome in every situation In this book I have included more than 108 categories of Strategies templates formats checklists wherever possible to easily grasp by the reader of this book Some of the important aspects are reiterated emphasizing their importance This book helps Construction Professionals even if they are handling a construction project for the first time to quickly apprehend all the critical fundamentals of Construction Project Management Throughout the book Exercises are included at the end of each chapter to reinforce the learnings and develop practical thinking to put into

practice This book is beneficial to Architects Civil Engineers Contractors Construction Team Members from Project Manager to Activity Supervisors also to Homeowners whether they are building their house on their own or outsourced to Contractors This book can also be used by every organization for in house training of their teams with construction projects not necessarily limited to Building Projects

Application of Mathematics and Optimization in Construction Project Management Hêriş Golpîra,2021-12-12 This book provides a broad overview of project and project management principles processes and success failure factors It also provides a state of the art of applications of the project management concepts especially in the field of construction projects based on the Project Management Body of Knowledge PMBOK The slate of geographically and professionally diverse authors illustrates project management as a multidisciplinary undertaking that integrates renewable and non renewable resources in a systematic process to achieve project goals The book describes assessment based on technical and operational goals and meeting schedules and budgets

Construction Schedules: Analysis, Evaluation and Interpretation of Schedules in Litigation and Dispute Resolution - 4th Edition Michael T. Callahan,2011-06-01 The Fourth Edition of Construction Schedules examines the use of construction schedules in resolving disputes over contract time extensions and the economic consequences of such and takes an in depth look at the only lasting opinions that count in this litigious arena These opinions are the ones expressed by the United States court system and other third party neutrals across the world Construction schedules are now globally used and analyzed to establish and prove opposing positions when projects are completed later than promised occurrences that are attributable to a multitude of causes during the construction process Entitlement to equitable adjustments due to changed conditions is now argued across the globe and American court opinions are the linchpin landmarks for neutral decision makers The current edition of Construction Schedules reflects the current thinking of the courts and suggests how parties and their attorneys should prepare and proceed in litigation arbitration or mediation For anyone involved or potentially involved in construction schedule litigation and or dispute resolution this work is the required starting point and reference

Digital Transformation in the Construction Industry Ehsan Noroozinejad Farsangi,Mohammad Noori,T.Y. Yang,Vasilis Sarhosis,Seyedali Mirjalili,Mirosław J. Skibniewski,2025-05-16 Digital Transformation in the Construction Industry Sustainability Resilience and Data Centric Engineering delivers timely and much sought after guidance related to novel digital first practices and the latest technological tools the gradual adoption of which is being embraced to significantly reshape the way buildings and other infrastructure assets are designed constructed operated and maintained Methodological and practice informed investigations by scholars and researchers from across the globe providing a wealth of knowledge relevant for and applicable to different geographical and economic contexts are coherently collated in this edited volume This systematic analysis of cutting edge developments such as Building Information Modeling Internet of Things Artificial Intelligence Machine Learning Big Data Augmented Reality Virtual Reality 3D Printing and Structural Health Monitoring is

accompanied by discussions on challenges and opportunities that digitalization engenders. Additionally, real world case studies enrich the coverage highlighting how these innovative solutions can contribute to establishing working efficiencies that can at the same time aid the impactful realization of globally recognized sustainability goals. Readers in both academic and professional settings are therefore not only equipped with a comprehensive overview of the state of the art but also offered an insightful reference resource for future works in the area. Covers emerging technologies comprehensively. Emphasizes the use of digital tools to support achievements for worldwide net zero targets. Focuses on lean and agile construction practices to improve project efficiency and reduce waste.

Proceedings of the Canadian Society for Civil Engineering Annual Conference 2023, Volume 3 Serge Desjardins, Gérard J. Poitras, Mazdak Nik-Bakht, 2024-10-15 This book comprises the proceedings of the Annual Conference of the Canadian Society for Civil Engineering 2023. The contents of this volume focus on the specialty track in construction with topics on modular and offsite construction, BIM construction planning and project management, construction automation, AI and robotics in construction, sustainable construction, asset management and construction safety among others. This volume will prove a valuable resource for researchers and professionals.

101 Case Studies in Construction Management Len Holm, 2018-10-11 This book provides 101 real life construction management case studies from an author with over 40 years experience in the construction industry and as a lecturer in construction management. Over 14 chapters, Len Holm has included case studies from real jobsites that cover organization, procurement, estimating, scheduling, subcontractors, communications, quality and cost control, change orders, claims and disputes, safety and close outs. Other hot topics covered include BIM, sustainability and lean. Each case is written in straightforward language and designed to test the reader's independent and critical thinking skills to develop their real world problem solving ability. The cases are open to interpretation and students will need to develop their own opinions of what's presented to them in order to reach a satisfactory solution. The cases are ideal for use in the classroom or flipped classroom for individual or group exercises and to encourage research writing and presenting skills in all manner of applied construction management situations. Such a broad and useful selection of case studies cannot be found anywhere else. While there is often no right answer, the author has provided model solutions to instructors through the online eResource.

Building Information Modeling in Pedagogy and Practice Anne K. Anderson, Kevin R. Miller, David E. Gunderson, 2025-08-11 The adoption of building information modeling (BIM) in both pedagogy and practice has experienced significant growth in the past decade. As the use of BIM is being quantitatively and qualitatively shown to improve project outcomes, many educators and practitioners are still struggling with how to incorporate BIM into curriculum training and current and future projects. This book is a compilation of the best academic and research articles on the topic of BIM, providing a resource for both educators and practitioners for understanding issues regarding BIM. Covers BIM topics such as BIM Execution Planning, Collaboration, Visualization, Site Utilization, Planning, Safety, Estimating, Sequencing, Coordination, Clash Detections, Integrated Project

Delivery Legal considerations for BIM Industry Uses of BIM Sustainability Facilities Management Interoperability Modular Construction and Virtual Reality and includes a new introduction and conclusion Building Information Modeling in Pedagogy and Practice will be an invaluable resource for engaged academics and teaching practitioners interested in playing a key role in the future development of the building profession as well as undergraduate and postgraduate students wishing to understand the importance of BIM Most of the chapters in this book were originally published in the International Journal of Construction Education and Research

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Real World Construction Scheduling Introduction

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