

# Engineering project phase with deliverables and cost estimate

This slide shows engineering project stages with basis and budget forecast. It provides information such as phase, client goals, deliverables, cost estimate, feasibility study, test work, conceptual design, engineering operations, etc.

| Phase             | Scoping/conceptual design  | Feasibility/preliminary engineering | Detailed engineering  | Engineering, procurement & construction  | Startup & operations  |
|-------------------|--|-------------------------------------|---|--|---|
|                   | Pre-project planning (PPP)   |                                     |   |  |   |
| Client Goals      | <ul style="list-style-type: none"> <li>Develop fundamentals</li> <li>Quantify threats</li> </ul>         | Select agile approach               | <ul style="list-style-type: none"> <li>Finalize project scope</li> <li>Keep it for 3 months</li> </ul>      | Budget - \$4000  | Add test fees   |
| Deliverables      | <ul style="list-style-type: none"> <li>Pre-design planning</li> <li>Prepare workflow diagrams</li> </ul> | Prepare tools and equipment layout  | <ul style="list-style-type: none"> <li>Perform 3D modeling</li> <li>Specify equipment attributes</li> </ul> | <ul style="list-style-type: none"> <li>Engineering</li> <li>Procurement</li> <li>Construction, or</li> <li>Construction management</li> <li>Commissioning</li> </ul> | <ul style="list-style-type: none"> <li>Training/setup assistance</li> <li>Performance test</li> </ul> |
| Cost Estimate     | Class 5 order-of-magnitude +50% / -30%   | Class primary +30% / -20%           | Class 3 budget +20% / -10%  | Class 2 control +10% / -10%  | Class 1 definite +10% / -5%   |
| Feasibility Study | Scoping  | Feasibility                         | Bankable  |  |   |
| Test Work         | Bench-scale testing  | Pilot plant testing                 | Optimization / variability testing  |  |   |

# Project Time And Cost Engineering

**Tobias Bleicker**



## **Project Time And Cost Engineering:**

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**Project Estimating and Cost Management** Pariv F. Rad PhD, PMP, 2001-10-01 Improve the accuracy of project estimates and make better in progress modifications by following the discipline independent approach mapped out in this book Learn the best ways to apply new tools including a breakdown structure for both work and resources and proven estimating models In addition you ll gain insights into best practices for progress monitoring and cost management as well as for dealing effectively with external projects Cost Engineering, 2004

**Contracts for Construction and Engineering Projects** Donald Charrett, 2021-12-22 Contracts for Construction and Engineering Projects provides unique and invaluable guidance on the role of contracts in construction and engineering projects The work explores various aspects of the intersection of contracts and construction projects involving the work of engineers and other professionals engaged in construction whether as project managers designers constructors contract administrators schedulers claims consultants forensic engineers or expert witnesses Compiling papers written and edited by the author refined and expanded with additional chapters in this new edition this book draws together a lifetime of lessons learned in these fields and covers the topics a practising professional might encounter in construction and engineering projects developed in bite sized chunks The chapters are divided into five key parts 1 The engineer and the contract 2 The project and the contract 3 Avoidance and resolution of disputes 4 Forensic engineers and expert witnesses and 5 International construction contracts The inclusion of numerous case studies to illustrate the importance of getting the contract right before it is entered into and the consequences that may ensue if this is not done makes this book essential reading for professionals practising in any area of design construction contract administration preparation of claims or expert evidence as well as construction lawyers who interact with construction professionals Project Planning Techniques Book Parviz F. Rad, Vittal S. Anantamula, 2005-09 A Comprehensive Framework for Project Planning in Any Industry Project Planning Techniques is a comprehensive reference for project managers in any discipline outlining the latest proven effective methods based on solid research Blending practical experience with academic rigor this authoritative resource will help you develop a deeper understanding of current knowledge and best practice techniques for project success With practical examples from many industries Project Planning Techniques gives you a firm understanding of how these methods are applied in real world situations Get a solid foundation in project planning fundamentals Discover the latest indices and models for project selection and prioritization Gain an understanding of the schedule network and the project schedule Learn processes and techniques for monitoring expenditures during the implementation phase Explore the relationship between

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**Mastering Project Time Management, Cost Control, and Quality Management** Randal Wilson,2015-04-23 Mastering Project Time Management Cost Control and Quality Management gives managers powerful insights and tools for addressing the Triple Constraints that define virtually every project time cost and quality This book is part of a new series of seven cutting edge project management guides for both working practitioners and students Like all books in this series it offers deep practical insight into the successful design management and control of complex modern projects Using real case studies and proven applications expert authors show how multiple functions and disciplines can and must be integrated to achieve a successful outcome Individually these books focus on realistic actionable solutions not theory Together they provide comprehensive guidance for working project managers at all levels including highly complex enterprise environments These books also provide indispensable knowledge for anyone pursuing PMI PMBOK or PRINCE2 certification or other accreditation in the field

**American Civil Engineers' Handbook** Mansfield Merriman,1920 *Engineering Record, Building Record and Sanitary Engineer* Henry Coddington Meyer,Charles Frederick Wingate,1898 *Engineering and Contracting* ,1909 **Engineering & Contracting** ,1919 *Transactions of the American Society of Civil Engineers* American Society of Civil Engineers,1927 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 Professional Engineer ,1922 **Technical Bulletin** ,1927 **Engineering News-record** ,1907 **Government Reports Announcements & Index** ,1988 **Analysis of the cost** ,1927 Selected Orders of the Public Service Commission of Wisconsin Public Service Commission of Wisconsin,1974 **Engineering News** ,1911 **An Analysis of the Cost of Tile Drainage Installation on the Farm** Harry Burgess Roe,1927 Mechanical Engineering ,1920

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