

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"> Develop fundamentals Quantify threats 	Select agile approach	<ul style="list-style-type: none"> Finalize project scope Keep it for 3 months 	Budget - \$4000	Add test fees
Deliverables	<ul style="list-style-type: none"> Pre-design planning Prepare workflow diagrams 	Prepare tools and equipment layout	<ul style="list-style-type: none"> Perform 3D modeling Specify equipment attributes 	<ul style="list-style-type: none"> Engineering Procurement Construction, or Construction management Commissioning 	<ul style="list-style-type: none"> Training/setup assistance Performance test
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

Randal Wilson



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Project and Cost Engineers' Handbook Kenneth K. Humphreys, 2004-11-30 Making the specifics of a complex concern accessible and its handling quite manageable this fourth edition of the Project and Cost Engineers Handbook examines the variables associated with international projects and project risk analysis It provides instruction on contingency planning delves into ethical considerations considers the imp

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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