1. Record Nr. UNINA9910828431803321

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Titolo	A handbook for construction planning and scheduling / / Andrew Baldwin and David Bordoli ; cover design by Andrew Magee
Pubbl/distr/stampa	Chichester, England : , : Wiley-Blackwell, , 2014 ©2014
ISBN	1-118-82693-0 1-118-83816-5 1-118-82689-2
Descrizione fisica	1 online resource (433 p.)
Classificazione	TEC005000
Disciplina	624.068/4
Soggetti	Building - Superintendence Production scheduling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Handbook for Construction Planning and Scheduling; Copyright; Contents; Notes on Contributors ; Foreword ; Preface; Acknowledgements; About the Companion Website; Section 1 Planning and Schedulingwithin the ConstructionContext; Introduction; Chapter 1 An Introduction to Planningand Scheduling; A brief history of planning and scheduling; Critical path methods; The impact of the PC; New systems and new thinking; New information and communication technologies; Planning; Who plans?; Planning, programming and scheduling; The cost and benefits of planning; Types of plans; An activity of the mind Planning for constructionThe planning process in the project cycle; PRINCE2; CIOB code of practice for project management for construction and development; The RIBA plan of work; The process protocol map; Summary; How is the planning process affected by procurement?; The context of construction project planning; Procurement and the performance of the UK construction industry; The Egan report (1998); Partnering; Public sector construction procurement: The private finance initiative (PFI); What do construction planners do?; Construction planning practice: a summary; Key points

Chapter 2 Managing Construction ProjectsProject management body of knowledge (PMBOK); Simultaneous management; Lean construction; A theory of construction as production by projects; Collaborative working; Morris' perspective; Summary; Key points; Section II Planning and Scheduling Techniques and Practices ; Introduction; Chapter 3 Planning and Scheduling Techniques; To-do lists; Bar charts; Flow diagrams; Flow charts; Work study; Network analysis; Activity-on-arrow networks; Drawing the network; Precedence diagrams; Drawing the network-precedence diagrams; Linked bar charts; Space diagrams Time chainage chartsMultiple activity charts; Line of balance; Line of balance - resource scheduling; ADePT; Data flow diagrams; A generic model for detailed building design; Dependency structure matrix analysis; Producing project and departmental schedules; 4D CAD; Key points; Chapter 4 Planning and Scheduling Practices; Schedule design and structure; Level 1 schedule report; Level 2 schedule report; Level 3 schedule report; Level 4 schedule report; Level 5 schedule report; What is required on smaller projects?; Creating these schedules; Work Breakdown Structure
Pre-tender planning, pre-contract planning, contract planningPre-contract planning; Contract planning; Activities: selection, sequencing and duration; Activity selection; Sequencing; Assessing the duration of each activity; Float and contingency; Total float; Free float; Interfering float; Independent float; Intermittent float; Negative float; Terminal float; Internal float; Contingency; Manipulation of float; Who owns the float?; Monitoring progress and managing the time model; Reviewing the assumptions used to produce the schedule
Collecting and reviewing production records and progress reports

Sommario/riassunto

"The authoritative industry guide on good practice for planning and scheduling in constructionThis handbook acts as a guide to good practice, a text to accompany learning and a reference document for those needing information on background, best practice, and methods for practical application. A Handbook for Construction Planning & Scheduling presents the key issues of planning and programming in scheduling in a clear, concise and practical way. The book divides into four main sections: Planning and Scheduling within the Construction Context; Planning and Scheduling Techniques and Practices; Planning and Scheduling Methods; Delay and Forensic Analysis. The authors include both basic concepts and updates on current topics demanding close attention from the construction industry, including planning for sustainability, waste, health and safety and Building Information Modelling (BIM).The book is especially useful for early career practitioners - engineers, quantity surveyors, construction managers, project managers - who may already have a basic grounding in civil engineering, building and general construction but lack extensive planning and scheduling experience. Students will find the website helpful with worked examples of the methods and calculations for typical construction projects plus other directed learning material.This authoritative industry guide on good practice for planning and scheduling in construction is written in a direct, informative style with a clear presentation enabling easy access of the relevant information with a companion website providing additional resources and learning support material. the authoritative industry guide on construction planning and scheduling direct informative writing style and clear presentation enables easy access of the relevant information companion website provides additional learning material. "--
"A Handbook for Construction Planning & Scheduling presents the key issues of planning and programming in scheduling in a clear, concise and practical way"--