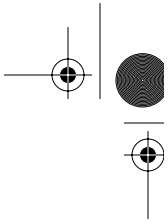


# Contents

*Introduction*

*xiii*

<b>Chapter 1</b>	<b>Building the Foundation</b>	<b>1</b>
	The Project Management Journey . . . . .	2
	Is It a Project? . . . . .	2
	Where Are We Going? . . . . .	3
	A Bird's-Eye View . . . . .	4
	Know the Structure of Your Organization . . . . .	7
	Benefiting from Project Management Practices . . . . .	13
	Tools of the Trade . . . . .	15
	Understanding Project Processes . . . . .	17
	Twenty-first Century Project Management . . . . .	21
	What's Old Is New Again . . . . .	22
	Constraints . . . . .	22
	Where Do You Go from Here? . . . . .	25
	Becoming PMP Certified . . . . .	26
	Certifying with CompTIA's Project+ . . . . .	27
	Formal Education Programs . . . . .	27
	Terms to Know . . . . .	28
	Review Questions . . . . .	29
<b>Chapter 2</b>	<b>Developing Project Management Skills</b>	<b>31</b>
	A Little Bit of Everything . . . . .	32
	Communication Is the Key . . . . .	33
	Organizing Techniques . . . . .	33
	General Management Skills . . . . .	39
	People Management Skills . . . . .	40
	Communicating Your Style . . . . .	41
	Exchanging Information . . . . .	42
	Active Listening . . . . .	47
	How Many Connections Are There? . . . . .	48
	Ten Tips for Communicating Effectively . . . . .	50
	Terms to Know . . . . .	51
	Review Questions . . . . .	52
<b>Chapter 3</b>	<b>Initiating the Project</b>	<b>53</b>
	Selecting Projects for Success . . . . .	54
	How Projects Come About . . . . .	54
	Project Requests . . . . .	57



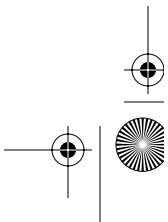
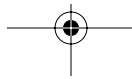
Selecting and Prioritizing Projects . . . . .	60
Feasibility Study . . . . .	66
Meeting the Stakeholders . . . . .	67
Working with the Project Sponsor . . . . .	67
Documenting Stakeholder Roles and Responsibilities . . . . .	68
Competing Needs of Stakeholders . . . . .	70
Creating the Project Charter . . . . .	71
Purposes for the Charter . . . . .	71
Essential Elements of a Project Charter . . . . .	73
Preliminary Project Scope Document . . . . .	78
Holding the Project Kickoff Meeting . . . . .	78
Creating the Agenda . . . . .	78
Terms to Know . . . . .	80
Review Questions . . . . .	81

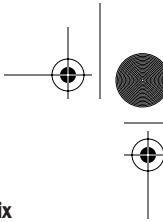
**Chapter 4 Defining the Project Goals 83**

Agreeing on the Deliverables . . . . .	84
Goals and Objectives . . . . .	84
Deliverables . . . . .	86
Discovering Requirements . . . . .	88
Requirements Gathering Process . . . . .	89
Critical Success Factors . . . . .	91
Identifying Assumptions and Constraints . . . . .	93
Defining Assumptions . . . . .	93
Defining Constraints . . . . .	95
Creating the Project Scope Statement . . . . .	96
Contents of the Project Scope Statement . . . . .	97
Obtaining Sign-off . . . . .	100
Creating the Project Scope Management Plan . . . . .	100
Creating the Communications Plan . . . . .	101
Terms to Know . . . . .	103
Review Questions . . . . .	104

**Chapter 5 Breaking Down the Project Activities 105**

Constructing the Work Breakdown Structure . . . . .	106
Organizing the WBS Levels . . . . .	106
Work Packages . . . . .	108
Identification Codes . . . . .	109
Outline View . . . . .	110
Defining Tasks and Activities . . . . .	111
Managing the Work . . . . .	112
Task Sequencing . . . . .	113
Determining Milestones . . . . .	114





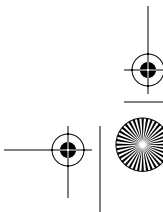
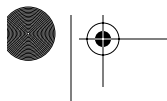
- Constructing the Responsibility Assignment Matrix . . . 115
- Estimating Activity Durations . . . . . 116
  - Expert Judgment . . . . . 116
  - Parametric Estimating . . . . . 116
- Establishing Dependencies . . . . . 117
- Constructing a Network Diagram . . . . . 118
  - Precedence Diagramming . . . . . 118
  - Activity on Node . . . . . 119
  - Arrow Diagramming Method—Activity on Arrow . . 120
  - Diagramming Method of Choice . . . . . 121
- Terms to Know . . . . . 121
- Review Questions . . . . . 122

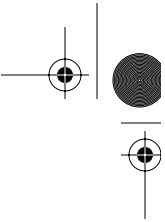
**Chapter 6 Planning and Acquiring Resources 123**

- Planning the Project Team . . . . . 124
  - Skills Assessment . . . . . 125
  - Deciding Who’s Needed . . . . . 126
  - Negotiating for Team Members . . . . . 127
  - Staffing Assignments . . . . . 129
- Acquiring Materials, Supplies, and Equipment . . . . . 130
  - Questions to Ask . . . . . 131
  - Make or Buy . . . . . 132
  - Procurement Plan . . . . . 133
  - Resource Plan . . . . . 134
- Contracting for Resources . . . . . 135
  - Request for Proposal and More . . . . . 136
  - Soliciting Bids . . . . . 137
  - Choosing a Supplier . . . . . 138
  - Awarding the Contract . . . . . 139
- Terms to Know . . . . . 140
- Review Questions . . . . . 141

**Chapter 7 Assessing Risk 143**

- Identifying Risks . . . . . 144
  - Types of Project Risks . . . . . 145
  - Common Project Risks—Where Are They Hiding? . . 146
  - Identification Techniques . . . . . 150
- Risk Analysis Techniques . . . . . 155
  - Risk Probability and Impact . . . . . 155
  - Risk Tolerance . . . . . 158
- Planning for Risks . . . . . 158
- Responding to Risks . . . . . 159
  - Accepting . . . . . 160





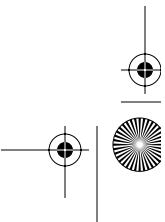
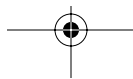
- Avoiding ..... 160
- Transferring ..... 160
- Mitigating ..... 161
- Contingency Planning ..... 161
  - Residual and Secondary Risks ..... 162
- Risk Management Plan ..... 162
- Terms to Know ..... 164
- Review Questions ..... 165

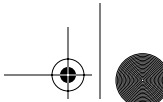
**Chapter 8 Developing the Project Plan 167**

- Creating the Project Schedule ..... 168
  - Project Schedule Components ..... 168
  - Program Evaluation and Review Technique ..... 169
  - Calculating the Critical Path ..... 173
  - Working with the Project Schedule ..... 176
  - Schedule Display Options ..... 179
- Quality Management Plan ..... 182
  - Documenting the Plan ..... 183
  - Cost of Quality ..... 185
- Terms to Know ..... 186
- Review Questions ..... 187

**Chapter 9 Budgeting 101 189**

- What Makes Up a Budget? ..... 190
  - Project Costs ..... 190
  - Direct Costs versus Indirect Costs ..... 191
  - Gathering the Docs ..... 191
  - Budgeting Process ..... 192
  - Budget Items ..... 192
  - Budget Woes ..... 193
  - Following the Processes ..... 194
- Estimating Techniques ..... 195
  - Analogous Estimating ..... 195
  - Bottom-Up Estimating ..... 195
  - Resource Cost Rates ..... 196
  - Parametric Estimating ..... 196
  - Computerized Tools ..... 196
  - Ask the Experts ..... 196
  - Ask the Vendors ..... 197
- Estimating Costs and Finalizing the Budget ..... 197
  - Questions to Ask ..... 199
  - Finalizing the Budget ..... 199
  - Down Memory Lane ..... 201





Are You in Control? . . . . .	201
What's the Cost? . . . . .	202
Budget Approvals . . . . .	203
Establishing a Cost Baseline . . . . .	203
Call It a Plan . . . . .	205
How Big Is It? . . . . .	206
Obtaining Approvals . . . . .	207
Terms to Know . . . . .	208
Review Questions . . . . .	209

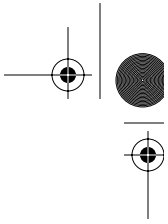
**Chapter 10 Executing the Project 211**

Assembling the Team . . . . .	212
Project Team Kickoff Meeting . . . . .	212
Four Stages of Team Development . . . . .	213
Effective Team Characteristics . . . . .	216
Negotiation and Problem-Solving Techniques . . . . .	217
Start at the Beginning . . . . .	218
The Five Approaches to Problem Resolution . . . . .	220
Project Manager's Role in Team Development . . . . .	222
Rewarding Experiences . . . . .	222
Leadership Power . . . . .	225
Gaining Trust and Respect from Team Members . . . . .	227
Professional Responsibility . . . . .	229
Progress Reporting . . . . .	232
Who Gets What? . . . . .	232
Status Reports and Action Logs . . . . .	232
Taking Corrective Action . . . . .	235
Terms to Know . . . . .	236
Review Questions . . . . .	237

**Chapter 11 Controlling the Project Outcome 239**

Change Happens . . . . .	240
How Changes Come About . . . . .	240
Establishing Change Management Control Procedures . . . . .	242
Forming a Change Management Plan . . . . .	242
Establishing a Change Control Board . . . . .	244
Tracking Changes . . . . .	245
Assessing the Impacts of Change . . . . .	246
Calling in Reinforcements . . . . .	247
Adjusting for Scope and Schedule Changes . . . . .	247
Managing and Revising Costs . . . . .	250
Monitoring and Controlling Project Processes . . . . .	250
Performance-Reporting Tools . . . . .	251
Risk Monitoring . . . . .	253





Is the Project in Trouble? .....	253
Just Say No .....	254
Early Warning Signs .....	254
Terms to Know .....	256
Review Questions .....	257

**Chapter 12      Closing the Books      259**

Happy Endings .....	260
Details, Details .....	260
Breaking Up Is Hard to Do .....	267
Training and Warranty Period .....	268
Implementing the Project .....	268
Documenting Lessons Learned .....	269
Obtaining Project Sign-off .....	271
Is the Customer Happy? .....	272
Archiving Project Documents .....	274
It's Party Time! .....	274
Terms to Know .....	275
Review Questions .....	276

**Appendix A      Answers to Review Questions      277**

Chapter 1 .....	277
Chapter 2 .....	278
Chapter 3 .....	279
Chapter 4 .....	280
Chapter 5 .....	282
Chapter 6 .....	283
Chapter 7 .....	284
Chapter 8 .....	286
Chapter 9 .....	287
Chapter 10 .....	288
Chapter 11 .....	289
Chapter 12 .....	290

**Appendix B      Sample Project Management Forms      293**

**Appendix C      Sample Project Management Checklists      307**

**Glossary      319**

*Index*      323

