

Contents at a Glance

Part I Essentials of Project Management and PMP Certification

1 Bridging the Gap Between PM and PMP	3
2 The Emerging World of Project Management	31
3 Project Management Process Groups	61

Part II The Nine Knowledge Areas

4 Project Integration Management	93
5 Project Scope Management	129
6 Project Time Management	165
7 Project Cost Management	209
8 Project Quality Management	245
9 Project Human Resource Management	277

- 10 Project Communications Management 311
- 11 Project Risk Management 341
- 12 Project Procurement Management 377
- 13 Closing the Project: Are We There Yet? 411

- Index 427

Contents

- ACKNOWLEDGMENTS xvii
- INTRODUCTION xix

Part I Essentials of Project Management and PMP Certification

- 1 Bridging the Gap Between PM and PMP 3
 - Introduction to Project Management Institute (PMI) 6
 - Why Get Certified? What's in It for Me? 7
 - Benefits of Achieving Certification/Credentials 7
 - The PMI Family of Credentials 8
 - Five Levels of PMI Credentials 8
 - Reasons People Pursue PMP Certification 11
 - Examples of Credential Eligibility 12
 - Demystifying PMI Exams 13
 - Differences Between the Exams 14
 - Exam Blueprint 15
 - PMI Exam Objectives (Skills Tested) 16
 - Expected Results (First-Time Pass Rate) 19
 - How to Apply for a PMI Exam 19
 - Manage the Exam Preparation Like a Project 21
 - Timeline of the PMP Credential Process 22
 - Start Training 22

- What to Expect on the PMP Exam 23
- Balancing Competing Demands 24
- Tools to Use to Prepare for the Exam 24
- Study Tips 26
- Exam Day Has Come 27
- Use the “Mark for Review” Option on the Exam 27
- Maintaining Your PMI Credential (CCRs/PDUs) 28
 - Easy PDUs 30
- References 30
- 2 The Emerging World of Project Management 31**
 - What Is a Project? 33
 - What Is a Program? 33
 - What Is an Operation? 34
 - What Is Project Management? 35
 - The Project Management Institute (PMI) View 36
 - The Real-World View—Managing Projects Using Instincts 36
 - Competing Project Constraints 37
 - What Is a Portfolio? What Is Portfolio Management? 38
 - The Role of the Project Manager 41
 - Importance of Clear Communications—Learn the Language 43
 - Three Takeaway Points from This Chapter 44
 - Roles of the Stakeholders (Who Are They and Why Do We Care?) 44
 - Try This: Who Are the Project Stakeholders? 45
 - Project Framework 46
 - The Project Life Cycle 46
 - Project Phases 46
 - Organizational Structures 47
 - Basic Organizational Structures According to PMI 47
 - Organizing the Project (Using Different Breakdown Structures) 48
 - Success Is in the Eyes of the Customer 49
 - Try This: What Does the Customer Want? 49
 - Adding Value to the Project 50
 - Try This: Building a Corral for Rodeo Animals 51
 - Case Study Introduction 51
 - The “Ready, Fire, Aim” Dilemma 53
 - AIM Strategy 55
 - Pop Quiz 59
 - References 60
- 3 Project Management Process Groups 61**
 - What Are Process Groups? 62
 - Initiating Process Group 65
 - Planning Process Group 67

- Executing Process Group 70
- Monitoring and Controlling Process Group 70
- Closing Process Group 70
- Introduction to PMI Knowledge Areas 74
 - Project Integration Management 74
 - Project Scope Management 75
 - Project Time Management 75
 - Project Cost Management 76
 - Project Quality Management 76
 - Project Human Resource Management 76
 - Project Communications Management 77
 - Project Risk Management 77
 - Project Procurement Management 77
 - Inputs, Tools and Techniques, and Outputs 78
- Project Processes 80
- Global Standards 80
- Mapping Processes to Knowledge Areas and Process Groups 81
 - The Importance of Planning 82
 - PMI Code of Ethics and Professional Conduct 85
- References 90

Part II The Nine Knowledge Areas

- 4 Project Integration Management 93**
 - Project Integration Management According to PMI 95
 - Overview of Project Integration Management Processes 96
 - The Selection Process: How Projects Are Born 97
 - Define the Business Need/Opportunity or Requirement 98
 - Project Methodology and Sample Checklist 100
 - Project Integration Management Processes: Charter to Close 102
 - 1. Develop Project Charter Process 102
 - Try This: Who Provides the Requirements? 110
 - 2. Develop Project Management Plan Process 112
 - Try This: Plan the Work 113
 - 3. Direct and Manage Project Execution Process 116
 - Try This: Sky’s the Limit: Pet Projects Are Out of Scope 118
 - 4. Monitor and Control Project Work Process 119
 - Try This: Keeping Your Eyes Wide Open: Accurate Progress Reporting 120
 - 5. Perform Integrated Change Control Process 120
 - Try This: Having a Crystal Ball: Fix It Before It Breaks 123
 - 6. Close Project or Phase Process 125
 - Try This: Pass the Shredder: Closing the Project Is So Therapeutic 126
 - References 127

5 Project Scope Management	129
Definition of Scope Management	132
What Are Project Deliverables?	132
Project Completion Criteria	133
Case Study: Sample Completion Criteria	133
Project Scope Management Processes	134
1. Collect Requirements Process	135
Try This: Dealing with Unusual Demands: The Customer Wants What?	138
2. Define Scope Process	144
3. Create Work Breakdown Structure (WBS) Process	147
4. Verify Scope Process	152
5. Control Scope Process	154
Additional Information on Change Management	159
Change Control Board	159
The Importance of Solid Project Scope Management	160
References	160
PROJECT SCOPE STATEMENT	161
6 Project Time Management	165
Time Management System	167
Managing the Schedule	167
Project Time Management Processes	168
1. Define Activities Process	170
2. Sequence Activities Process	175
3. Estimate Activity Resources Process	185
Try This: Who's on First? (Knowing the Schedule)	186
Try This: The Overachiever ("Pick Me, Coach!")	187
4. Estimate Activity Durations Process	188
Try This: Using Three-Point Estimate for Travel Time	191
5. Develop Schedule Process	191
6. Control Schedule Process	204
Try This: Out-of-Control Schedule	206
References	207
7 Project Cost Management	209
An Offer I Couldn't Refuse	211
How Do You Spell "\$ponsor"?	212
How Cost Management Ties into Time Management	212
Project Cost Management Processes	213
1. Estimate Costs Process	215
Try This: Parametric Estimating	221
2. Determine Budget Process	225
3. Control Costs Process	226

Try This: Earned Value Example Using BEC Case Study	232
Cost Management Summary	242
References	242
8 Project Quality Management	245
How to Achieve Customer Satisfaction	247
How Do You Measure Quality?	248
Case Study: Sample Quality Measurements	249
Importance of Quality	250
What Is Broken and How Do We Fix It?	251
How Do We Fix the Quality Problems?	252
Definition of Quality and How It Changed	253
Gurus of Quality	253
Key Quality Terms	254
Six Sigma, Lean, and Kaizen Initiatives	257
Try This: Go Lean Project	259
Project Quality Management Processes	261
1. Plan Quality Process	262
2. Perform Quality Assurance Process	268
3. Perform Quality Control Process	269
Quality Management Summary	274
References	274
9 Project Human Resource Management	277
What Is Project Human Resource Management?	279
Role of the Project Manager in HR Management	279
Project Human Resource Management Processes	280
1. Develop Human Resource Plan Process	281
2. Acquire Project Team Process	283
3. Develop Project Team Process	287
4. Manage Project Team Process	295
Try This: Take Me Out to the Ball Game: Networking the Project Team	300
Managing Customer Expectations	306
Signs of a Conflict	307
Conflict Resolution	307
Techniques to Help Resolve Conflicts	308
HR Management Summary	309
References	309
10 Project Communications Management	311
The PM's Role in Communications	314
The Medium (How We Deliver the Message)	315
Virtual Communications (Wave of the Future)	316

Project Communications Management Processes	317
1. Identify Stakeholders Process	317
Try This: How to Plan Communications for Key Stakeholders	318
2. Plan Communications Process	321
3. Distribute Information Process	329
4. Manage Stakeholder Expectations Process	332
Try This: Managing Unrealistic Expectations	332
5. Report Performance Process	336
Summary of Communications Management	339
References	339
11 Project Risk Management	341
Risk Factors	343
Threats, Opportunities, and Triggers	343
Try This: Don't Rain on My Project	345
Be Proactive (Plan for Risk and Mitigate Wherever Possible)	345
Risk Tolerances and Thresholds	347
Project Risk Management Processes	348
1. Plan Risk Management Process	349
2. Identify Risks Process	354
3. Perform Qualitative Risk Analysis Process	358
4. Perform Quantitative Risk Analysis Process	360
5. Plan Risk Responses Process	364
6. Monitor and Control Risks Process	366
Summary of Risk Management	372
References	373
12 Project Procurement Management	377
Definition of a Contract	379
Contract Terms and Conditions	379
Elements of a Legally Binding Contract	382
Definition of Procurement	383
Role of the Project Manager (Buyer or Seller)	384
Project Procurement Management Processes	385
1. Plan Procurements Process	386
2. Conduct Procurements Process	397
3. Administer Procurements Process	400
4. Close Procurements Process	403
Try This: Fixing Issues Before Turning Out the Lights	404
Summary	409
References	409

13 Closing the Project: Are We There Yet?	411
Importance of Project Closure	413
Formal Acceptance	413
Three Takeaway Points	413
Closing Processes	414
Reverse Engineering	414
The Past Is a Crystal Ball Into the Future	415
Exit Criteria	415
Next Steps: Where to Go from Here	423
Project Objectives for this Book	424
Go Confidently in the Direction of Your Dreams	424
References	425
Index	427