

# Contents

*Introduction*

*xxiii*

<b>Part I</b>	<b>Getting Started the Right Way</b>	<b>1</b>
<b>Chapter 1</b>	<b>Project 2010 as an Enabling Tool for Project Managers</b>	<b>3</b>
	Why Do People Think Project Is Hard to Use?	4
	Accidental or Not, Knowledge Is Important	4
	Credentials Will Help Close the Gap	5
	Is It Me, or Is It the Software?	6
	When to Use Project	7
	Projects Are Supposed to End—Really	9
	Projects vs. Product Life Cycles	9
	Consider the Impact	10
	Strategic Importance of Project 2010	12
	Strategy Drives Projects	12
	Working on the Right Projects in the Right Way	13
	Improving Results with a Proven, Effective Approach	15
	Planning, Communicating, and Tracking	16
	Proven Effective over Time	16
	Summary	17
	Key Terms	18
<b>Chapter 2</b>	<b>Mapping the Project-Management Process Groups to Microsoft Project 2010</b>	<b>19</b>
	Mapping Project to Your Methodology Will Increase Effectiveness	20
	An Overview of the PM Process Groups	21
	Initiating Processes and Project Usage	23
	Planning Processes and Project Usage	26
	Executing Processes and Project Usage	30
	Monitoring and Controlling Processes and Project Usage	33
	Closing Processes and Project Usage	35
	Summary	38
	Key Terms	38
<b>Chapter 3</b>	<b>Overview of Enterprise Project Management</b>	<b>39</b>
	What Is EPM?	40
	Enterprise Project Management Overview	40
	Enterprise Standards and Controls	42

	EPM as a Central Repository for Resources and Projects	44
	Enterprise Resource Capabilities	44
	Central Repository for Projects	47
	When to Consider EPM	48
	Understanding Roles within EPM	50
	Executives and EPM	50
	Resource or Functional Managers and EPM	50
	Team Members and EPM	52
	Project Managers and EPM	52
	Portfolio Managers and EPM	54
	Mapping EPM to PMBOK	55
	Summary	56
<b>Chapter 4</b>	<b>Getting Started and Setting Up the Microsoft Project Environment</b>	<b>57</b>
	Getting Started, and Moving Around Project	58
	Welcome to the Ribbon	59
	The Default Gantt Chart with Timeline View	62
	Other Views	64
	Using Project Templates to Get Started	67
	Importing Plans from Excel	69
	Key Options and Settings You Need to Know About	71
	Manual or Automatic Scheduling	71
	Project Summary Task and Outline Number	71
	Scheduling Approaches and Default Task Types	74
	Other Options	79
	Working with Calendars	79
	Creating New Calendars	79
	Controlling Conversion Factors	81
	Project Start- and End-Date Options	82
	Displaying the Project Start and Current Dates in a Gantt Chart	83
	Summary	84
	Hands-On Exercises	86
<b>Part II</b>	<b>Planning Essentials</b>	<b>89</b>
<b>Chapter 5</b>	<b>Creating and Entering the Work Breakdown Structure and Task Arrangement</b>	<b>91</b>
	What Is a WBS, and Why Is It Important?	92
	What Is a WBS?	92
	Creating a WBS, and Its Importance to Project	93
	Right-Sizing Your Plan	96

	Progressive Elaboration and Defining Project Phases and Milestones	97
	Determining Your Project Tasks and Milestones	99
	Entering Your WBS: Phases, Tasks, and Milestones	100
	Getting to Know the Task Name Column	100
	Outlining (Indenting and Outdenting) Tools	102
	Collapse and Expand: Show Outline	106
	Managing Your WBS	107
	Using the WBS Coding Tool	107
	Conducting What-if Scenarios with Multilevel Undo	109
	Summary	111
	Hands-On Exercises	112
<b>Chapter 6</b>	<b>Estimating and Entering Duration or Work</b>	<b>115</b>
	Estimating Duration vs. Estimating Work—What’s the Difference?	116
	Estimating Duration for a Project	117
	Entering Duration Estimates for a Project	118
	Using the Task Information Dialog Box	125
	Estimating Work for a Project	126
	Program Evaluation and Review Technique	127
	What Is PERT?	128
	Summary	130
	Hands-On Exercises	131
<b>Chapter 7</b>	<b>Setting Dependencies and the Critical Path</b>	<b>133</b>
	Setting Dependencies	134
	Understanding Dependencies	134
	Dependency Types	135
	Dependency Scenarios and Creating Networks	136
	Impact of User-Controlled (Manual) Scheduling on Dependencies	139
	Setting Dependencies in Project	143
	Using Constraints and Deadlines	150
	Constraints	150
	Deadlines	154
	Understanding and Viewing the Critical Path	156
	What Is the Critical Path?	157
	Calculating the Critical Path	158
	Viewing the Critical Path and Slack in Project	159
	Summary	162
	Hands-On Exercises	163

<b>Chapter 8</b>	<b>Assigning Resources and Costs</b>	<b>167</b>
	Setting Up Your Resource Pool	168
	Using the Resource Sheet View	168
	Sharing Resources across Projects	178
	Assigning Resources and Costs	180
	Using the Resource Names Column	180
	Split-Screen View and Details	181
	Assign Resources Function	187
	Task Information	187
	Team Planner (Project Professional Only)	189
	Analyzing Resource Usage and Resource Leveling	191
	Analyzing Resource Utilization	191
	Resource Leveling	194
	Summary	199
	Hands-On Exercises	201
<b>Chapter 9</b>	<b>Understanding the Calculation Engine for Automatic Scheduling</b>	<b>203</b>
	Six Factors that Drive the Calculation of Time (Dates and Duration) for Automatic Scheduling	204
	Project Start Date	204
	Calendars	206
	Task Constraints and Deadlines	207
	Task Durations	210
	Task Dependencies	210
	Resource Assignments and Task Types	211
	Four Factors that Affect the Calculation of Cost	212
	Standard and Overtime Rates	213
	Cost Per Use	214
	Fixed Cost	214
	Resource Assignment Level	215
	Switching from Manual Scheduling to Automatic Scheduling	217
	Task Level	217
	Summary-Level Impact	218
	Summary	222
	Hands-On Exercises	223
<b>Part III</b>	<b>Communicating and Reporting Essentials</b>	<b>225</b>
<b>Chapter 10</b>	<b>Understanding Views</b>	<b>227</b>
	Understanding Major View Components	228
	Data Group	230
	Other View Commands	234

	Task Views	235
	Accessing Other Views from the Gantt Chart	237
	Timeline View	238
	Task-Usage Views	240
	Network Diagram	242
	Calendar View	244
	Resource Views	246
	Team Planner View (Project Professional)	247
	Resource Sheet View	247
	Resource Usage View	249
	Resource Form	250
	Resource Graph	251
	Summary	252
	Hands-On Exercises	253
<b>Chapter 11</b>	<b>Using Tables and Custom Fields</b>	<b>255</b>
	Creating Custom Fields	256
	Custom Text Fields	257
	Other Custom Fields	265
	Using Tables and Creating Custom Tables	267
	Using Existing Tables	267
	Creating Custom Tables	271
	Summary	279
	Hands-On Exercises	280
<b>Chapter 12</b>	<b>Using Filters, Groups, and Sorts</b>	<b>283</b>
	Using Filters and Highlights	284
	Using Predefined Filters	284
	Using Highlights	287
	Creating Custom Filters	288
	Using Groups	291
	Built-in Groups	291
	Custom Groups	296
	Using Sorts and Auto-filters	298
	Sorts	298
	Auto-Filters	299
	Summary	301
	Hands-On Exercises	302
<b>Chapter 13</b>	<b>Creating Custom Views, Formatting, and Reporting</b>	<b>305</b>
	Creating Custom Views	306
	Key Elements of a View	306
	Creating a Custom View	307

	Formatting Text and Bar Styles	311
	Formatting Text Styles	311
	Formatting Bar Styles	313
	Sharing and Sending Project Information and Reports	318
	Enhanced Copy and Paste	319
	Copy Picture	320
	The Organizer and the Global.MPT Template	320
	SharePoint Synchronization	323
	File Types	324
	Visual Reports	325
	Summary	327
	Hands-On Exercises	328
<b>Chapter 14</b>	<b>Creating Master Schedules with Inserted Projects</b>	<b>331</b>
	Creating Master Schedules	332
	Setting Up a Master Project File	332
	Setting Up Cross-Project Links	335
	Cross-Project Linking Options and Showing Links Between Projects	337
	Critical Path Across Projects	340
	Default Settings	340
	Changing the Settings	341
	Reporting and Analyzing Across Projects	342
	Sharing Resources Across Projects	342
	Analyzing Resources Across Projects	345
	Roll-Up Reports	346
	Summary	348
	Hands-On Exercises	349
<b>Part IV</b>	<b>Tracking and Analyzing Essentials</b>	<b>351</b>
<b>Chapter 15</b>	<b>Setting and Maintaining Baselines</b>	<b>353</b>
	Understanding and Setting Baselines	354
	Understanding Baselines	354
	Setting a Baseline	355
	Viewing Baselines	356
	Tracking Gantt View and the Variance Table	356
	Formatting the Gantt Chart to Display the Baseline	358
	Maintaining Baselines	359
	Clearing a Baseline	360
	Rolling-Wave Planning with Baselines	361
	Adding New Tasks After a Baseline Has Been Set	362

		Resetting a Baseline	363
		Multiple Baselines	364
		Summary	366
		Hands-On Exercises	367
<b>Chapter</b>	<b>16</b>	<b>Updating and Tracking Status</b>	<b>369</b>
		Understanding and Entering Percent Complete	370
		Different Types of Percent Complete	370
		Entering Percent Complete	373
		Understanding and Entering Actuals	375
		Current and Status Date	375
		Using the Status Date for Automatic Updates	378
		Entering Actuals	380
		Summary	389
		Hands-On Exercises	390
<b>Chapter</b>	<b>17</b>	<b>Variance Analysis and Taking Corrective Action</b>	<b>391</b>
		Understanding Variance	392
		Types of Variance	392
		Viewing Variance	393
		Analyzing Variance and Taking Corrective Action	398
		Understanding Slippage	398
		Earned-Value Analysis	402
		Understanding Earned-Value Techniques and Values	402
		Using Earned-Value Analysis in Project	407
		Summary	409
		Hands-On Exercises	410
<b>Appendix</b>	<b>A</b>	<b>Microsoft's Certification Program</b>	<b>411</b>
		How Do You Become Certified on Project 2010?	412
		Tips for Taking a Microsoft Exam	413
		Certification Objectives Map	413
<b>Appendix</b>	<b>B</b>	<b>About the Companion CD</b>	<b>419</b>
		What You'll Find on the CD	420
		Video Walkthroughs	420
		PDF of the Book	420
		Adobe Reader	420
		System Requirements	420
		Using the CD	421
		Troubleshooting	421
		Customer Care	421
		<i>Index</i>	423