<table>
<thead>
<tr>
<th>Preface</th>
<th>xix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>xxxi</td>
</tr>
</tbody>
</table>

**Part I  Understanding the Project Management Landscape**

**Chapter 1  What Is a Project?**

- Defining a Project
  - Sequence of Activities
  - Unique Activities
  - Complex Activities
  - Connected Activities
  - One Goal
  - Specified Time
  - Within Budget
  - According to Specification
  - A Business-focused Definition of a Project
- An Intuitive View of the Project Landscape
- Defining a Program
- Defining a Portfolio
- The Enterprise Level
- Understanding the Scope Triangle
  - Scope
  - Quality
  - Cost
  - Time
  - Resources
  - Risk
- Envisioning the Scope Triangle as a System in Balance

<table>
<thead>
<tr>
<th>Contents</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>xxix</td>
</tr>
<tr>
<td>Introduction</td>
<td>xxxi</td>
</tr>
<tr>
<td>Part I  Understanding the Project Management Landscape</td>
<td>1</td>
</tr>
<tr>
<td>Chapter 1  What Is a Project?</td>
<td>3</td>
</tr>
<tr>
<td>Defining a Project</td>
<td>4</td>
</tr>
<tr>
<td>Sequence of Activities</td>
<td>4</td>
</tr>
<tr>
<td>Unique Activities</td>
<td>4</td>
</tr>
<tr>
<td>Complex Activities</td>
<td>5</td>
</tr>
<tr>
<td>Connected Activities</td>
<td>5</td>
</tr>
<tr>
<td>One Goal</td>
<td>5</td>
</tr>
<tr>
<td>Specified Time</td>
<td>5</td>
</tr>
<tr>
<td>Within Budget</td>
<td>6</td>
</tr>
<tr>
<td>According to Specification</td>
<td>6</td>
</tr>
<tr>
<td>A Business-focused Definition of a Project</td>
<td>7</td>
</tr>
<tr>
<td>An Intuitive View of the Project Landscape</td>
<td>7</td>
</tr>
<tr>
<td>Defining a Program</td>
<td>9</td>
</tr>
<tr>
<td>Defining a Portfolio</td>
<td>9</td>
</tr>
<tr>
<td>The Enterprise Level</td>
<td>10</td>
</tr>
<tr>
<td>Understanding the Scope Triangle</td>
<td>11</td>
</tr>
<tr>
<td>Scope</td>
<td>11</td>
</tr>
<tr>
<td>Quality</td>
<td>12</td>
</tr>
<tr>
<td>Cost</td>
<td>12</td>
</tr>
<tr>
<td>Time</td>
<td>13</td>
</tr>
<tr>
<td>Resources</td>
<td>13</td>
</tr>
<tr>
<td>Risk</td>
<td>13</td>
</tr>
<tr>
<td>Envisioning the Scope Triangle as a System in Balance</td>
<td>14</td>
</tr>
<tr>
<td>Prioritizing the Scope Triangle Variables for Improved Change Management</td>
<td>15</td>
</tr>
<tr>
<td>Applying the Scope Triangle</td>
<td>15</td>
</tr>
<tr>
<td>The Importance of Classifying Projects</td>
<td>16</td>
</tr>
<tr>
<td>Establishing a Rule for Classifying Projects</td>
<td>17</td>
</tr>
<tr>
<td>Classification by Project Characteristics</td>
<td>17</td>
</tr>
<tr>
<td>Classification by Project Application</td>
<td>19</td>
</tr>
<tr>
<td>The Contemporary Project Environment</td>
<td>20</td>
</tr>
<tr>
<td>High Speed</td>
<td>20</td>
</tr>
<tr>
<td>High Change</td>
<td>21</td>
</tr>
<tr>
<td>Lower Cost</td>
<td>21</td>
</tr>
<tr>
<td>Increasing Levels of Complexity</td>
<td>22</td>
</tr>
<tr>
<td>More Uncertainty</td>
<td>22</td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>22</td>
</tr>
<tr>
<td>Discussion Questions</td>
<td>23</td>
</tr>
</tbody>
</table>

### Chapter 2 What Is Project Management?

#### Understanding the Fundamentals of Project Management

- What Business Situation Is Being Addressed by This Project? | 27 |
- What Does the Business Need to Do? | 27 |
- What Will You Do? | 28 |
- How Will You Do It? | 28 |
- How Will You Know You Did It? | 28 |
- How Well Did You Do? | 28 |

#### Challenges to Effective Project Management

- Flexibility and Adaptability | 30 |
- Deep Understanding of the Business and Its Systems | 32 |
- Take Charge of the Project and Its Management | 32 |
- Project Management Is Organized Common Sense | 33 |

#### Managing the Creeps

- Scope Creep | 33 |
- Hope Creep | 34 |
- Effort Creep | 34 |
- Feature Creep | 34 |

#### What Are Requirements—Really?

#### Introducing Project Management Life Cycles

- Traditional Project Management Approaches | 42 |
- Agile Project Management Approaches | 47 |
- Extreme Project Management Approach | 52 |
- Emertxe Project Management Approach | 56 |
- Recap of PMLC Models | 58 |

#### Choosing the Best-Fit PMLC Model

- Total Cost | 61 |
- Duration | 61 |
- Market Stability | 61 |
- Technology | 61 |
- Business Climate | 62 |
Number of Departments Affected 62
Organizational Environment 62
Team Skills and Competencies 63
Putting It All Together 63
Discussion Questions 64

Chapter 3  What Are the Project Management Process Groups? 65
Defining the Five Process Groups 66
The Scoping Process Group 66
The Planning Process Group 67
The Launching Process Group 68
The Monitoring and Controlling Process Group 68
The Closing Process Group 69
Defining the Ten Knowledge Areas 69
Project Integration Management 70
Project Scope Management 70
Project Time Management 70
Project Cost Management 70
Project Quality Management 71
Project Human Resource Management 72
Project Communications Management 73
Project Risk Management 74
Project Procurement Management 84
Project Stakeholder Management 98
Mapping Knowledge Areas to Process Groups 98
What the Mapping Means 99
How to Use the Mapping 99
Using Process Groups to Define PMLCs 99
A Look Ahead: Mappin... 100
Putting It All Together 100
Discussion Questions 100

Part II  Traditional Project Management 101
Chapter 4  How to Scope a TPM Project 103
Using Tools, Templates, and Processes to Scope a Project 104
Managing Client Expectations 105
Wants versus Needs 105
Project Scoping Process 106
The Project Scoping Meeting 109
The Project Scoping Meeting Deliverables 111
Putting It All Together 139
Discussion Questions 140

Chapter 5  How to Plan a TPM Project 141
Using Tools, Templates, and Processes to Plan a Project 142
The Importance of Planning 144
Using Application Software Packages to Plan a Project 145
Determining the Need for a Software Package 146
Project Planning Tools 146
How Much Time Should Planning Take? 148
Planning and Conducting Joint Project Planning Sessions 149
Planning the JPPS 150
Running the Planning Session 156
Building the WBS 157
Using the RBS to Build the WBS 158
Uses for the WBS 160
Generating the WBS 161
Six Criteria to Test for Completeness in the WBS 164
Approaches to Building the WBS 168
Representing the WBS 172
Estimating 175
Estimating Duration 176
Resource Loading versus Task Duration 177
Variation in Task Duration 178
Six Methods for Estimating Task Duration 179
Estimation Life Cycles 183
Estimating Resource Requirements 184
Resource Planning 187
Estimating Cost 188
Constructing the Project Network Diagram 191
Envisioning a Complex Project Network Diagram 191
Benefits to Network-Based Scheduling 192
Building the Network Diagram Using the
  Precedence Diagramming Method 193
Dependencies 195
Constraints 197
Using the Lag Variable 201
Creating an Initial Project Network Schedule 201
Analyzing the Initial Project Network Diagram 206
Compressing the Schedule 206
Management Reserve 209
Writing an Effective Project Proposal 210
  Contents of the Project Proposal 210
  Format of the Project Proposal 212
Gaining Approval to Launch the Project 212
Putting It All Together 213
Discussion Questions 213

Chapter 6 How to Launch a TPM Project 217
Using Tools, Templates, and Processes to Launch a Project 218
Recruiting the Project Team 219
  Core Team Members 219
  Client Team 223
Chapter 7  How to Monitor & Control a TPM Project  267

Using Tools, Templates, and Processes to Monitor and Control a Project  268
Establishing Your Progress Reporting System  269
Types of Project Status Reports  269
How and What Information to Update  273
Frequency of Gathering and Reporting Project Progress  275
Variances  275
Applying Graphical Reporting Tools  276
Gantt Charts  277
Stoplight Reports  277
Burn Charts  277
Milestone Trend Charts  279
Chapter 12  Comparing Linear, Incremental, Iterative, Adaptive, and Extreme PMLC Models  359

Linear PMLC Model  360
Characteristics  361
Strengths  364
Weaknesses  366
When to Use a Linear PMLC Model  367
Specific Linear PMLC Models  368

Incremental PMLC Model  370
Characteristics  371
Strengths  371
Weaknesses  373
When to Use an Incremental PMLC Model  376
Incremental PMLC Models  377

Iterative PMLC Model  380
Characteristics  381
Strengths  383
Weaknesses  384
When to Use an Iterative PMLC Model  386
Specific Iterative PMLC Models  386

Adaptive PMLC Model  399
Characteristics  400
Strengths  401
Weaknesses of the Adaptive PMLC Model  402
When to Use an Adaptive PMLC Model  403
Adaptive Project Framework  403

Extreme PMLC Model  422
Characteristics  422
Strengths  423
Weaknesses  424
Specific Extreme PMLC Models  424
INSPIRE Extreme PMLC Model  425
### Classifying Multiple Team Projects
- Two Teams
- Multiple Teams

### Project Office Structure
- Project Office Characteristics
- Project Office Strengths
- Project Office Weaknesses
- When to Use a PO

### Core Team Structure
- Core Team Characteristics
- Core Team Strengths
- Core Team Weaknesses
- When to Use a CT

### Super Team Structure
- Super Team Characteristics
- Super Team Strengths
- Super Team Weaknesses
- When to Use an ST

### Putting It All Together

## Chapter 15 Establishing and Maturing a Project Support Office

### Background of the Project Support Office

### Defining a Project Support Office
- Temporary or Permanent Organizational Unit
- Portfolio of Services
- Specific Portfolio of Projects

### Naming the Project Support Office

### Establishing Your PSO’s Mission

### Framing PSO Objectives

### Exploring PSO Support Functions
- Project Support
- Consulting and Mentoring
- Methods and Standards
- Software Tools
- Training
- Staffing and Development

### Selecting PSO Organizational Structures
- Virtual versus Real
- Proactive versus Reactive
- Temporary versus Permanent
- Program versus Projects
- Enterprise versus Functional
- Hub-and-Spoke

### Understanding the Organizational Placement of the PSO

### Determining When You Need a Project Support Office
<table>
<thead>
<tr>
<th>Chapter 16</th>
<th>Establishing and Managing a Continuous Process Improvement Program</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Understanding Project Management Processes and Practices</td>
</tr>
<tr>
<td></td>
<td>The Project Management Process</td>
</tr>
<tr>
<td></td>
<td>The Practice of the Project Management Process</td>
</tr>
<tr>
<td></td>
<td>Defining Process and Practice Maturity</td>
</tr>
<tr>
<td></td>
<td>Level E: Ad Hoc or Informal</td>
</tr>
<tr>
<td></td>
<td>Level D: Documented Processes</td>
</tr>
<tr>
<td></td>
<td>Level C: Documented Processes That Everyone Uses</td>
</tr>
<tr>
<td></td>
<td>Level B: Integrated into Business Processes</td>
</tr>
<tr>
<td></td>
<td>Level A: Continuous Improvement</td>
</tr>
<tr>
<td></td>
<td>Measuring Project Management Process and Practice Maturity</td>
</tr>
<tr>
<td></td>
<td>The Process Quality Matrix and Zone Map</td>
</tr>
<tr>
<td></td>
<td>What Process Has Been Defined So Far?</td>
</tr>
<tr>
<td></td>
<td>Using the Continuous Process Improvement Model</td>
</tr>
<tr>
<td></td>
<td>Phase 1: Foundation</td>
</tr>
<tr>
<td></td>
<td>Phase 2: Assessment and Analysis</td>
</tr>
<tr>
<td></td>
<td>Phase 3: Improvement Initiatives</td>
</tr>
<tr>
<td></td>
<td>Phase 4: Check Results</td>
</tr>
<tr>
<td></td>
<td>Defining Roles and Responsibilities of the PSO</td>
</tr>
<tr>
<td></td>
<td>Using Process Improvement Tools, Templates, and Processes</td>
</tr>
<tr>
<td></td>
<td>Fishbone Diagrams and Root Cause Analysis</td>
</tr>
<tr>
<td></td>
<td>Control Charts</td>
</tr>
<tr>
<td></td>
<td>Flowcharting</td>
</tr>
<tr>
<td></td>
<td>Histograms</td>
</tr>
</tbody>
</table>
Contents

Pareto Analysis 583
Run Charts 585
Scatter Diagrams 585
Force Field Analysis 585
Trigger Values 588
Putting It All Together 588
Discussion Questions 589

Part V  End State: Maturing to an Enterprise-Level Project Management Model 591

Chapter 17  Establishing a Project Portfolio Management Process 593
Introduction to Project Portfolio Management 594
What Is a Portfolio Project? 594
What Is a Project Portfolio? 595
What Is Project Portfolio Management? 596
The Project Portfolio Management Life Cycle 596
ESTABLISH a Portfolio Strategy 598
EVALUATE Project Alignment to the Portfolio Strategy 603
PRIORITIZE Projects and Hold Pending
Funding Authorization 604
SELECT a Balanced Portfolio Using the Prioritized List 611
MANAGE the Active Projects 619
Roles and Responsibilities of the PSO in Portfolio Management 627
Project Sponsor 627
Portfolio Manager 628
Preparing Your Project for Submission to the
Portfolio Management Process 629
A Revised Project Overview Statement 629
A Two-Step Submission Process 630
A New Submission Process 631
Agile Project Portfolio Management 632
Integrating a PMLC Model into the Agile Project Portfolio
Management Process 635
Challenges of Managing Agile Portfolios 637
SELECT a Balanced Portfolio 638
MANAGE Active Projects 641
Putting It All Together 642
Discussion Questions 643

Chapter 18  A Practical Project-Based Model of the Enterprise 645
The Business Environment—A View from the Top 647
Business Climate 648
Market Opportunities 648
Enterprise Capacity 649
Vision/Mission 650
Objectives 652
### Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategies</td>
<td>653</td>
</tr>
<tr>
<td>Tactics</td>
<td>654</td>
</tr>
<tr>
<td>OST Dependency Structure</td>
<td>655</td>
</tr>
<tr>
<td>The EPPM Portfolio Decision Process</td>
<td>656</td>
</tr>
<tr>
<td>COLLECT Phase</td>
<td>658</td>
</tr>
<tr>
<td>ANALYZE Phase</td>
<td>659</td>
</tr>
<tr>
<td>SELECT Phase</td>
<td>659</td>
</tr>
<tr>
<td>INITIATE Phase</td>
<td>660</td>
</tr>
<tr>
<td>EXECUTE Phase</td>
<td>660</td>
</tr>
<tr>
<td>DEPLOY Phase</td>
<td>660</td>
</tr>
<tr>
<td>Phase Gates</td>
<td>660</td>
</tr>
<tr>
<td>What Is a Resource?</td>
<td>661</td>
</tr>
<tr>
<td>Who Are the Participants in the EPPM?</td>
<td>662</td>
</tr>
<tr>
<td>What Is the Enterprise Project RASCI Matrix?</td>
<td>664</td>
</tr>
<tr>
<td>Complex Project Profiling</td>
<td>666</td>
</tr>
<tr>
<td>Case Study: Establishing a Workforce &amp; Business Center</td>
<td>670</td>
</tr>
<tr>
<td>Hypothesis</td>
<td>670</td>
</tr>
<tr>
<td>Synopsis</td>
<td>670</td>
</tr>
<tr>
<td>The Need</td>
<td>671</td>
</tr>
<tr>
<td>The Problem</td>
<td>672</td>
</tr>
<tr>
<td>The Solution</td>
<td>675</td>
</tr>
<tr>
<td>Components of the WBDC Model</td>
<td>675</td>
</tr>
<tr>
<td>Putting It All Together</td>
<td>680</td>
</tr>
<tr>
<td>Discussion Questions</td>
<td>680</td>
</tr>
<tr>
<td>Appendix A Glossary of Acronyms</td>
<td>683</td>
</tr>
<tr>
<td>Appendix B What’s on the Website?</td>
<td>689</td>
</tr>
<tr>
<td>Appendix C Bibliography</td>
<td>691</td>
</tr>
<tr>
<td>Index</td>
<td>701</td>
</tr>
</tbody>
</table>