# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>xix</td>
</tr>
<tr>
<td>Preface</td>
<td>xxi</td>
</tr>
<tr>
<td>Acknowledgments</td>
<td>xxiii</td>
</tr>
<tr>
<td>About the Author</td>
<td>xxv</td>
</tr>
<tr>
<td>Part I: General Production Overview</td>
<td>1</td>
</tr>
<tr>
<td>Chapter 1: Game Production Overview</td>
<td>3</td>
</tr>
<tr>
<td>1.1 Introduction</td>
<td>3</td>
</tr>
<tr>
<td>1.2 Production Cycle</td>
<td>4</td>
</tr>
<tr>
<td>1.3 Pre-production</td>
<td>5</td>
</tr>
<tr>
<td>Game Concept</td>
<td>6</td>
</tr>
<tr>
<td>Game Requirements</td>
<td>7</td>
</tr>
<tr>
<td>Game Plan</td>
<td>8</td>
</tr>
<tr>
<td>Pre-Production Checklist</td>
<td>9</td>
</tr>
<tr>
<td>1.4 Production</td>
<td>9</td>
</tr>
<tr>
<td>Plan Implementation</td>
<td>10</td>
</tr>
<tr>
<td>Tracking Progress</td>
<td>11</td>
</tr>
<tr>
<td>Task Completion</td>
<td>11</td>
</tr>
<tr>
<td>Production Checklist</td>
<td>12</td>
</tr>
<tr>
<td>1.5 Testing</td>
<td>12</td>
</tr>
<tr>
<td>Plan Validation</td>
<td>13</td>
</tr>
<tr>
<td>Code Release</td>
<td>13</td>
</tr>
<tr>
<td>Testing Checklist</td>
<td>14</td>
</tr>
<tr>
<td>1.6 Post-Production</td>
<td>14</td>
</tr>
<tr>
<td>Learn from Experience</td>
<td>14</td>
</tr>
</tbody>
</table>
## Chapter 2 Roles on the Team

### 2.1 Introduction

### 2.2 Production
- Executive Producer
- Producer
- Associate Producer
- Background and Training

### 2.3 Art
- Art Director
- Lead Artist
- Concept Artist
- World Builder or Level Designer
- Asset Artist
- Animator
- Technical Artist
- Marketing Artist
- Background and Training

### 2.4 Engineering
- Technical Director
- Lead Engineer
- Engineer
- Background and Training

### 2.5 Design
- Creative Director
- Lead Designer
- Designer
- Writer
- Background and Training

### 2.6 Quality Assurance Testing
- Lead QA Tester
- QA Tester
- Background and Training

### 2.7 Team Organization

### 2.8 Corporate
- Marketing and Public Relations
# Table of Contents

Creative Services 38
Sales 38
2.9 Chapter Summary 38

## Chapter 3 Project Management Methods

3.1 Introduction 41
3.2 Pros and Cons 42
3.3 Personal Software Process (PSP) 44
3.4 Scrum 47
3.5 Project Management Institute (PMI) 52
3.6 Chapter Summary 57

## Part II: Business Information

## Chapter 4 Legal Information

4.1 Introduction 61
4.2 Intellectual Property Rights 62
   Copyrights 63
   Trademarks 63
   Trade Secrets 64
   Patents 65
4.3 Legal Agreements 65
   Employee/Consultant Agreements 65
   Work for Hire 66
   Non-Disclosure Agreements (NDA) 67
   Development Contracts 67
   End User License Agreements (EULA) 68
4.4 Licenses 68
4.5 Chapter Summary 71

## Chapter 5 Developer and Publisher Relationships

5.1 Introduction 73
5.2 Pitching a Game to a Publisher 73
5.3 Managing the Developer-Publisher Relationship 77
   Independent Developer 82
   Publisher-Owned Developer 87
5.4 Third-Party Game Approvals 90
5.5 Chapter Summary 90
# Table of Contents

## Part III: Managing People

### Chapter 6  Hiring And Retaining Talent

6.1 Introduction  
6.2 Hiring Talent  
  - Screening Resumes  
  - Interviewing Talent  
  - Providing Feedback  
6.3 Retaining Talent  
6.4 Training  
  - Game Development Resources  
  - Organizations  
  - Conference and Trade Shows  
  - General Game Industry Information  
6.5 Chapter Summary

### Chapter 7  Teams

7.1 Introduction  
7.2 Project Leadership  
7.3 Picking Leads  
7.4 Team Building  
  - Getting to Know Each Other  
  - Role Definition  
  - Cross-Training  
  - Seating Arrangements  
  - Team Meetings  
  - Team Website  
7.5 Team Buy-in and Motivation  
  - Warning Signs  
  - Addressing the Warning Signs  
  - Showing Appreciation  
  - Sharing Vision  
  - Team Survey  
7.6 Quality of Life  
7.7 Chapter Summary

### Chapter 8  Effective Communication

8.1 Introduction  
8.2 Written Communication
8.3 Oral Communication 134
8.4 Nonverbal Communication 136
8.5 Establishing Communication Norms 137
8.6 Communication Challenges 138
  Resolving Conflict 138
  Delivering Bad News 140
  Giving Effective Feedback 141
8.7 Chapter Summary 142

Part IV: Technical Production 143

Chapter 9 Massively Multiplayer Online Games 145
  9.1 Introduction 145
  9.2 Differences Between MMOs and Other Games 146
  9.3 Pre-Production 147
    Technology Issues 147
    Design Issues 149
    Art Issues 150
    Production Team 151
  9.4 Production 153
  9.5 Post-Production 155
  9.6 Chapter Summary 155

Chapter 10 Voiceover 157
  10.1 Introduction 157
  10.2 Planning for Voiceover 158
    Voiceover Design 158
    Technical Considerations 159
    File Formats 160
    Voiceover Script 162
    Placeholder Voiceover 163
    Schedule and Staffing 164
  10.3 Choosing a Sound Studio 166
    Bid Packages 167
  10.4 Casting Actors 169
    Union Versus Non-Union 170
    Celebrity Voices 171
    Preparing Character Descriptions 172
    Auditions 172
## Table of Contents

**Part IV: Marketing**

- 13.1 Marketing Strategy 208
- 13.2 Marketing Campaigns 209
- 13.3 Marketing Channels 210
- 13.4 Demos 210
  - Planning for a Demo 210
  - Console Demos 211
  - Localized Demos 212
- 13.5 Marketing Assets 212
- 13.6 Game Builds 213
  - Working with Public Relations 213
  - Press Tours 213
  - Interviews 214
  - Developer Diaries 214
  - Tradeshows 214
- 13.7 Asset Deliverable Checklist 214
- 13.8 Chapter Summary 215

**Part V: Pre-Production** 217

### Chapter 14 Game Concept 219

- 14.1 Introduction 219
- 14.2 Beginning the Process 220
  - Brainstorming 221
  - Initial Concept 223
  - Genre 223
  - Platform 224
  - SWOT Analysis 224
  - Competitive Analysis 226
  - Approval 227
- 14.3 Define concept 229
  - Mission Statement 229
  - Game Setting 230
  - Gameplay Mechanics 230
  - Story Synopsis 231
  - Concept Art 232
  - Audio Elements 232
- 14.4 Prototyping 233
- 14.5 Risk Analysis 236
# Table of Contents

14.6 Pitch Idea 239  
14.7 Project Kick-off 239  
14.8 Concept Outline 240  
14.9 Chapter Summary 240  

**Chapter 15 Game Requirements** 241  
15.1 Introduction 241  
15.2 Define Game Features 242  
15.3 Define Milestones and Deliverables 244  
15.4 Evaluate Technology 249  
15.5 Define Tools and Pipeline 249  
15.6 Documentation 252  
  Design 253  
  Art 254  
  Technical 255  
15.7 Risk Analysis 257  
15.8 Approval 258  
15.9 Game Requirements Outline 258  
15.10 Chapter Summary 258  

**Chapter 16 Game Plan** 261  
16.1 Introduction 261  
16.2 Dependencies 262  
16.3 Schedules 264  
  Creating a Schedule 265  
  Tracking Tasks 275  
16.4 Budgets 278  
  Creating a Budget 278  
  Managing a Budget 281  
16.5 Staffing 283  
16.6 Outsourcing 284  
  Communication 286  
16.7 Middleware 287  
16.8 Game Plan Outline 290  
16.9 Chapter Summary 290  

**Part VI: Production** 293  

**Chapter 17 Production Cycle** 295  
17.1 Introduction 295
<table>
<thead>
<tr>
<th>Chapter 18</th>
<th>Production Techniques</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.1</td>
<td>Introduction</td>
<td>305</td>
</tr>
<tr>
<td>18.2</td>
<td>Getting a Project Back on Track</td>
<td>306</td>
</tr>
<tr>
<td>18.3</td>
<td>Project Reviews</td>
<td>309</td>
</tr>
<tr>
<td>18.4</td>
<td>Critical Stage Analysis</td>
<td>312</td>
</tr>
<tr>
<td>18.5</td>
<td>Weekly Status Reports</td>
<td>312</td>
</tr>
<tr>
<td>18.6</td>
<td>Running Meetings</td>
<td>314</td>
</tr>
<tr>
<td>18.7</td>
<td>Resource Allocation</td>
<td>316</td>
</tr>
<tr>
<td>18.8</td>
<td>Preventing Feature Creep</td>
<td>316</td>
</tr>
<tr>
<td>18.9</td>
<td>Establishing Approval Processes</td>
<td>319</td>
</tr>
<tr>
<td>18.10</td>
<td>Task Forces</td>
<td>320</td>
</tr>
<tr>
<td>18.11</td>
<td>Chapter Summary</td>
<td>321</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 19</th>
<th>Making Builds</th>
<th>323</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.1</td>
<td>Introduction</td>
<td>323</td>
</tr>
<tr>
<td>19.2</td>
<td>Build Process</td>
<td>324</td>
</tr>
<tr>
<td>Build Schedule</td>
<td>324</td>
<td></td>
</tr>
<tr>
<td>Automated Builds</td>
<td>325</td>
<td></td>
</tr>
<tr>
<td>19.3</td>
<td>Multilingual Builds</td>
<td>326</td>
</tr>
<tr>
<td>19.4</td>
<td>Build Notes</td>
<td>326</td>
</tr>
<tr>
<td>For the Development Team</td>
<td>327</td>
<td></td>
</tr>
<tr>
<td>For Management</td>
<td>327</td>
<td></td>
</tr>
<tr>
<td>For Marketing and PR</td>
<td>327</td>
<td></td>
</tr>
<tr>
<td>19.5</td>
<td>Preventing Piracy</td>
<td>328</td>
</tr>
<tr>
<td>Copy Protection Schemes</td>
<td>328</td>
<td></td>
</tr>
<tr>
<td>19.6</td>
<td>Chapter Summary</td>
<td>329</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 20</th>
<th>Software Ratings</th>
<th>331</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.1</td>
<td>Introduction</td>
<td>331</td>
</tr>
<tr>
<td>20.2</td>
<td>Software Age Ratings</td>
<td>332</td>
</tr>
<tr>
<td>20.3</td>
<td>ESRB (United States)</td>
<td>334</td>
</tr>
<tr>
<td>20.4</td>
<td>PEGI (Europe)</td>
<td>337</td>
</tr>
<tr>
<td>20.5</td>
<td>BBFC and VSC (United Kingdom)</td>
<td>338</td>
</tr>
<tr>
<td>20.6</td>
<td>USK (Germany)</td>
<td>339</td>
</tr>
</tbody>
</table>
Chapter 21 Localization

21.1 Introduction
21.2 Creating International Content
21.3 Localization-Friendly Code
   Language Assets
   Text Assets
   Art Assets
   Voiceover Assets
   International Characters and Fonts
   User Interface
   Keyboard Input
   PAL versus NTSC
   Other Technical Considerations
21.4 Level of Localization
21.5 Localization Plan
   Schedule, Budget, and Staffing
21.6 Organizing Assets for Translation
21.7 Integrating Translated Assets
21.8 Testing
   Functionality Testing
   Linguistic Testing
21.9 Console Submission
21.10 Localization Checklist
21.11 Chapter Summary

Part VII: Testing

Chapter 22 Testing

22.1 Introduction
22.2 Testing Schedule
22.3 Test Plans
22.4 Testing Pipeline
   Bug Tracking Database
   Bug Definitions
<table>
<thead>
<tr>
<th>Chapter 22</th>
<th>Code Releasing</th>
<th>375</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.5</td>
<td>Testing Cycle</td>
<td>367</td>
</tr>
<tr>
<td></td>
<td>Writing Bugs</td>
<td>368</td>
</tr>
<tr>
<td></td>
<td>Assigning and Closing Bugs</td>
<td>369</td>
</tr>
<tr>
<td></td>
<td>Checking TCRs</td>
<td>370</td>
</tr>
<tr>
<td>22.6</td>
<td>External Testing</td>
<td>371</td>
</tr>
<tr>
<td>22.7</td>
<td>Chapter Summary</td>
<td>373</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part VIII: Post-Production</th>
<th>381</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 24</td>
<td>Postmortems</td>
</tr>
<tr>
<td>24.1</td>
<td>Introduction</td>
</tr>
<tr>
<td>24.2</td>
<td>Purpose of a Postmortem</td>
</tr>
<tr>
<td>24.3</td>
<td>Conducting a Postmortem</td>
</tr>
<tr>
<td></td>
<td>Involve the Entire Team</td>
</tr>
<tr>
<td></td>
<td>Prepare for the Postmortem</td>
</tr>
<tr>
<td></td>
<td>Maintain Focus</td>
</tr>
<tr>
<td>24.4</td>
<td>Lessons Learned Document</td>
</tr>
<tr>
<td>24.5</td>
<td>Chapter Summary</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 25</th>
<th>Closing Kits</th>
<th>391</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.1</td>
<td>Introduction</td>
<td>391</td>
</tr>
<tr>
<td>25.2</td>
<td>Defining Closing Kits</td>
<td>392</td>
</tr>
<tr>
<td>25.3</td>
<td>Creating Closing Kits</td>
<td>392</td>
</tr>
<tr>
<td></td>
<td>Assets</td>
<td>393</td>
</tr>
<tr>
<td></td>
<td>Tools</td>
<td>394</td>
</tr>
<tr>
<td></td>
<td>Game Code</td>
<td>394</td>
</tr>
<tr>
<td></td>
<td>Documentation</td>
<td>395</td>
</tr>
<tr>
<td>25.4</td>
<td>Organizing Content</td>
<td>396</td>
</tr>
<tr>
<td>25.5</td>
<td>Finalizing Closing Kits</td>
<td>397</td>
</tr>
<tr>
<td>25.6</td>
<td>Closing Kit Checklist</td>
<td>397</td>
</tr>
<tr>
<td>25.7</td>
<td>Chapter Summary</td>
<td>397</td>
</tr>
</tbody>
</table>
# Table of Contents

Appendix A: Case Study—Game Production Cycle 401
Appendix B: Glossary 453
Appendix C: Resources 457
Appendix D: Biographies 461
Appendix E: About The CD-ROM 471
Index 473