Contents

List of Figures xxxvii

Preface to the Second Edition xxxxi

Acknowledgements xxxv

About the Author xxxvii

PART I ENTERPRISE RISK MANAGEMENT IN CONTEXT 1

1 Introduction 3
  1.1 Risk Diversity 4
  1.2 Approach to Risk Management 5
  1.3 Business Growth Through Risk Taking 5
  1.4 Risk and Opportunity 6
  1.5 The Role of the Board 7
  1.6 Primary Business Objective (or Goal) 8
  1.7 What is Enterprise Risk Management? 9
  1.8 Benefits of Enterprise Risk Management 10
  1.9 Structure 12
    1.9.1 Corporate Governance 12
    1.9.2 Internal Control 13
    1.9.3 Implementation 14
    1.9.4 Risk Management Framework 14
    1.9.5 Risk Management Policy 15
    1.9.6 Risk Management Process 15
    1.9.7 Sources of Risk 16
  1.10 Summary 16
  1.11 References 16

2 Developments in Corporate Governance in the UK 19
  2.1 Investor Unrest 19
  2.2 The Problem of Agency 20
3 Developments in Corporate Governance in the US

3.1 Corporate Governance

3.2 The Securities and Exchange Commission
   3.2.1 Creation of the SEC
   3.2.2 Organisation of the SEC

3.3 The Laws That Govern the Securities Industry
   3.3.1 Securities Act 1933
   3.3.2 Securities Exchange Act 1934
   3.3.3 Trust Indenture Act 1939
   3.3.4 Investment Company Act 1940
   3.3.5 Investment Advisers Act 1940

3.4 Catalysts for the Sarbanes-Oxley Act 2002
   3.4.1 Enron
   3.4.2 WorldCom
   3.4.3 Tyco International
   3.4.4 Provisions of the Act
   3.4.5 Implementation
   3.4.6 Sarbanes-Oxley Section 404
   3.4.7 The Positive Effects of Post-Enron Reforms
   3.4.8 Criticism of Section 404 Before the Global Financial Crisis
   3.4.9 Criticism of Section 404 After the Global Financial Crisis

3.5 National Association of Corporate Directors 2008

3.6 Summary

3.7 References
   4.1 The Financial Crisis in Summary 59
   4.2 How the Financial Crisis Unfolded 60
   4.3 The United States Mortgage Finance Industry 61
   4.4 Subprime Model of Mortgage Lending 61
      4.4.1 Contributing Events to the Credit Crisis 61
      4.4.2 Foreclosures 63
      4.4.3 Negative Equity 65
      4.4.4 Housing Surplus 67
      4.4.5 Vicious Circles 68
   4.5 Why this Crisis Warrants Close Scrutiny 68
   4.6 Behaviours 70
      4.6.1 Investor Behaviour in the Search for Yield 70
      4.6.2 Mortgage Lending Behaviour 71
      4.6.3 Bank Behaviour and Risk Transfer through Securitised Credit 71
      4.6.4 “Group Think” and Herd Behaviour 72
      4.6.5 Banks’ Behaviour and Risk Appetite 74
      4.6.6 Behaviour of Regulators and the Division of “Narrow Banking” from Investment Banking 75
      4.6.7 Banks’ Behaviour and Misplaced Reliance of Sophisticated Mathematics and Statistics 75
   4.7 Worldwide Deficiencies in Risk Management 76
   4.8 Federal Reform 76
   4.9 Systemic Risk 79
   4.10 The Future of Risk Management 81
   4.11 Summary 82
   4.12 References 82

5 Developments in Corporate Governance in Australia and Canada 85
   5.1 Australian Corporate Governance 85
      5.1.1 Regulation Arising from Corporate Failures 85
      5.1.2 Corporate Governance Reforms Following the Accounting Scandals of the Early 2000s 86
      5.1.3 Horwath 2002 Corporate Governance Report 88
      5.1.4 The ASX Corporate Governance Council 89
      5.1.5 Financial Statements 90
   5.2 Canada 90
      5.2.1 Dey Report 90
      5.2.2 Dey Revisited 91
      5.2.3 Kirby Report 91
      5.2.4 Saucier Committee 92
      5.2.5 National Policy and Instrument (April 2005) 92
      5.2.6 TSE Corporate Governance: Guide to Good Disclosure 2006 93
   5.3 Summary 94
   5.4 References 94
### Contents

6 Internal Control and Risk Management

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1 The Composition of Internal Control</td>
<td>97</td>
</tr>
<tr>
<td>6.2 Risk as a Subset of Internal Control</td>
<td>97</td>
</tr>
<tr>
<td>6.2.1 The Application of Risk Management</td>
<td>98</td>
</tr>
<tr>
<td>6.3 Allocation of Responsibility</td>
<td>102</td>
</tr>
<tr>
<td>6.3.1 Cadbury Committee</td>
<td>102</td>
</tr>
<tr>
<td>6.3.2 Hampel Committee</td>
<td>102</td>
</tr>
<tr>
<td>6.3.3 Turnbull</td>
<td>103</td>
</tr>
<tr>
<td>6.3.4 Higgs Review</td>
<td>104</td>
</tr>
<tr>
<td>6.3.5 Smith Review</td>
<td>104</td>
</tr>
<tr>
<td>6.3.6 OECD</td>
<td>105</td>
</tr>
<tr>
<td>6.4 The Context of Internal Control and Risk Management</td>
<td>106</td>
</tr>
<tr>
<td>6.5 Internal Control and Risk Management</td>
<td>107</td>
</tr>
<tr>
<td>6.6 Embedding Internal Control and Risk Management</td>
<td>107</td>
</tr>
<tr>
<td>6.7 Summary</td>
<td>107</td>
</tr>
<tr>
<td>6.8 References</td>
<td>108</td>
</tr>
</tbody>
</table>

7 Developments in Risk Management in the UK Public Sector

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 Responsibility for Risk Management in Government</td>
<td>109</td>
</tr>
<tr>
<td>7.1.1 Cabinet Office</td>
<td>110</td>
</tr>
<tr>
<td>7.1.2 Treasury</td>
<td>111</td>
</tr>
<tr>
<td>7.1.3 Office of Government Commerce</td>
<td>111</td>
</tr>
<tr>
<td>7.1.4 National Audit Office</td>
<td>112</td>
</tr>
<tr>
<td>7.2 Risk Management Publications</td>
<td>112</td>
</tr>
<tr>
<td>7.3 Successful IT</td>
<td>113</td>
</tr>
<tr>
<td>7.4 Supporting Innovation</td>
<td>115</td>
</tr>
<tr>
<td>7.4.1 Part 1: Why Risk Management is Important</td>
<td>115</td>
</tr>
<tr>
<td>7.4.2 Part 2: Comprehension of Risk Management</td>
<td>115</td>
</tr>
<tr>
<td>7.4.3 Part 3: What More Needs to be Done to Improve Risk Management</td>
<td>115</td>
</tr>
<tr>
<td>7.5 The Orange Book</td>
<td>116</td>
</tr>
<tr>
<td>7.5.1 Identify the Risks and Define a Framework</td>
<td>116</td>
</tr>
<tr>
<td>7.5.2 Assign Ownership</td>
<td>116</td>
</tr>
<tr>
<td>7.5.3 Evaluate</td>
<td>117</td>
</tr>
<tr>
<td>7.5.4 Assess Risk Appetite</td>
<td>117</td>
</tr>
<tr>
<td>7.5.5 Response to Risk</td>
<td>117</td>
</tr>
<tr>
<td>7.5.6 Gain Assurance</td>
<td>118</td>
</tr>
<tr>
<td>7.5.7 Embed and Review</td>
<td>118</td>
</tr>
<tr>
<td>7.6 Audit Commission</td>
<td>118</td>
</tr>
<tr>
<td>7.7 CIPFA/SOLACE Corporate Governance</td>
<td>120</td>
</tr>
<tr>
<td>7.8 M_o_R 2002</td>
<td>121</td>
</tr>
<tr>
<td>7.9 DEFRA</td>
<td>123</td>
</tr>
<tr>
<td>7.9.1 Risk Management Strategy</td>
<td>123</td>
</tr>
<tr>
<td>7.10 Strategy Unit Report</td>
<td>124</td>
</tr>
<tr>
<td>7.11 Risk and Value Management</td>
<td>125</td>
</tr>
<tr>
<td>Section</td>
<td>Title</td>
</tr>
<tr>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>7.12</td>
<td>The Green Book</td>
</tr>
<tr>
<td>7.12.1</td>
<td>Optimism Bias</td>
</tr>
<tr>
<td>7.12.2</td>
<td>Annex 4</td>
</tr>
<tr>
<td>7.13</td>
<td>CIPFA Guidance on Internal Control</td>
</tr>
<tr>
<td>7.14</td>
<td>Managing Risks to Improve Public Services</td>
</tr>
<tr>
<td>7.15</td>
<td>The Orange Book (Revised)</td>
</tr>
<tr>
<td>7.16</td>
<td>M_o_R 2007</td>
</tr>
<tr>
<td>7.17</td>
<td>Managing Risks in Government</td>
</tr>
<tr>
<td>7.18</td>
<td>Summary</td>
</tr>
<tr>
<td>7.19</td>
<td>References</td>
</tr>
</tbody>
</table>

**PART II THE RISK MANAGEMENT PROCESS**

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Establishing the Context: Stage 1</td>
<td>141</td>
</tr>
<tr>
<td>8.1</td>
<td>Process</td>
<td>141</td>
</tr>
<tr>
<td>8.2</td>
<td>Process Goal and Subgoals</td>
<td>142</td>
</tr>
<tr>
<td>8.3</td>
<td>Process Definition</td>
<td>143</td>
</tr>
<tr>
<td>8.4</td>
<td>Process Inputs</td>
<td>143</td>
</tr>
<tr>
<td>8.5</td>
<td>Process Outputs</td>
<td>145</td>
</tr>
<tr>
<td>8.6</td>
<td>Process Controls (Constraints)</td>
<td>145</td>
</tr>
<tr>
<td>8.7</td>
<td>Process Mechanisms (Enablers)</td>
<td>146</td>
</tr>
<tr>
<td>8.7.1</td>
<td>Ratios</td>
<td>146</td>
</tr>
<tr>
<td>8.7.2</td>
<td>Risk Management Process Diagnostic</td>
<td>147</td>
</tr>
<tr>
<td>8.7.3</td>
<td>SWOT Analysis</td>
<td>148</td>
</tr>
<tr>
<td>8.7.4</td>
<td>PEST Analysis</td>
<td>148</td>
</tr>
<tr>
<td>8.8</td>
<td>Process Activities</td>
<td>149</td>
</tr>
<tr>
<td>8.8.1</td>
<td>Business Objectives</td>
<td>149</td>
</tr>
<tr>
<td>8.8.2</td>
<td>Business Plan</td>
<td>150</td>
</tr>
<tr>
<td>8.8.3</td>
<td>Examining the Industry</td>
<td>151</td>
</tr>
<tr>
<td>8.8.4</td>
<td>Establishing the Processes</td>
<td>151</td>
</tr>
<tr>
<td>8.8.5</td>
<td>Projected Financial Statements</td>
<td>153</td>
</tr>
<tr>
<td>8.8.6</td>
<td>Resources</td>
<td>155</td>
</tr>
<tr>
<td>8.8.7</td>
<td>Change Management</td>
<td>155</td>
</tr>
<tr>
<td>8.8.8</td>
<td>Marketing Plan</td>
<td>155</td>
</tr>
<tr>
<td>8.8.9</td>
<td>Compliance Systems</td>
<td>156</td>
</tr>
<tr>
<td>8.9</td>
<td>Summary</td>
<td>156</td>
</tr>
<tr>
<td>8.10</td>
<td>References</td>
<td>156</td>
</tr>
</tbody>
</table>

**9 Risk Identification: Stage 2**

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1</td>
<td>Process</td>
<td>159</td>
</tr>
<tr>
<td>9.2</td>
<td>Process Goal and Subgoals</td>
<td>159</td>
</tr>
<tr>
<td>9.3</td>
<td>Process Definition</td>
<td>160</td>
</tr>
<tr>
<td>9.4</td>
<td>Process Inputs</td>
<td>161</td>
</tr>
<tr>
<td>9.5</td>
<td>Process Outputs</td>
<td>162</td>
</tr>
<tr>
<td>9.6</td>
<td>Process Controls (Constraints)</td>
<td>162</td>
</tr>
<tr>
<td>9.7</td>
<td>Process Mechanisms (Enablers)</td>
<td>163</td>
</tr>
</tbody>
</table>
11.7 Process Mechanisms (Enablers)
11.7.1 Probability Trees
11.7.2 Expected Monetary Value
11.7.3 Utility Theory and Functions
11.7.4 Decision Trees
11.7.5 Markov Chain
11.7.6 Investment Appraisal

11.8 Process Activities
11.8.1 Basic Concepts of Probability
11.8.2 Sensitivity Analysis
11.8.3 Scenario Analysis
11.8.4 Simulation
11.8.5 Monte Carlo Simulation
11.8.6 Latin Hypercube
11.8.7 Probability Distributions Defined from Expert Opinion

11.9 Summary
11.10 References

12 Risk Treatment: Stage 5
12.1 Process
12.2 Process Goal and Subgoals
12.3 Process Definition
12.4 Process Inputs
12.5 Process Outputs
12.6 Process Controls (Constraints)
12.7 Process Mechanisms
12.8 Process Activities
12.9 Risk Appetite
12.10 Risk Response Strategies
12.10.1 Risk Reduction
12.10.2 Risk Removal
12.10.3 Risk Reassignment or Transfer
12.10.4 Risk Retention
12.11 Summary
12.12 References

13 Monitoring and Review: Stage 6
13.1 Process
13.2 Process Goal and Subgoals
13.3 Process Definition
13.4 Process Inputs
13.5 Process Outputs
13.6 Process Controls (Constraints)
13.7 Process Mechanisms
13.8 Process Activities
13.8.1 Executing
13.8.2 Monitoring 236
13.8.3 Controlling 237
13.9 Summary 239
13.10 Reference 240

14 Communication and Consultation: Stage 7 241
14.1 Process 241
14.2 Process Goal and Subgoals 242
14.3 Process Definition 242
14.4 Process Inputs 243
14.5 Process Outputs 243
14.6 Process Controls (Constraints) 244
14.7 Process Mechanisms 244
14.8 Process Activities 244
14.9 Internal Communication 245
14.10 External Communication 245
14.11 Summary 245
14.12 Reference 246

PART III INTERNAL INFLUENCES – MICRO FACTORS 247

15 Financial Risk Management 249
15.1 Definition of Financial Risk 249
15.2 Scope of Financial Risk 250
15.3 Benefits of Financial Risk Management 250
15.4 Implementation of Financial Risk Management 251
15.5 Liquidity Risk
   15.5.1 Current and Quick Ratios 251
   15.5.2 Mitigation of Liquidity Risk 253
15.6 Credit Risk
   15.6.1 Default Risk 253
   15.6.2 Exposure Risk 254
   15.6.3 Recovery Risk 254
   15.6.4 Credit Insurance 255
   15.6.5 Counterparty Risk 256
   15.6.6 Due Diligence 256
15.7 Borrowing 259
15.8 Currency Risk 259
15.9 Funding Risk 260
15.10 Foreign Investment Risk
   15.10.1 Country Risk 262
   15.10.2 Environment Risk 263
15.11 Derivatives
   15.11.1 Exchange Traded Derivatives 263
   15.11.2 Over-the-Counter Derivatives 264
15.12 Summary 264
15.13 References 265
16 Operational Risk Management

16.1 Definition of Operational Risk
16.2 Scope of Operational Risk
16.3 Benefits of Operational Risk
16.4 Implementation of Operational Risk
16.5 Strategy
16.5.1 Definition of Strategy Risk
16.5.2 Objectives
16.5.3 Business Plan
16.5.4 New Business Development
16.5.5 Resources
16.5.6 Stakeholder Interests
16.5.7 Corporate Experience
16.5.8 Reputation
16.6 People
16.6.1 Definition of People Risk
16.6.2 Types of People Risk
16.6.3 Human Resource Management Practices
16.6.4 Ability to Pay Salaries
16.6.5 Regulatory and Statutory Requirements
16.6.6 Staff Constraints
16.6.7 Staff Dishonesty
16.6.8 Risk Management
16.6.9 Health and Safety
16.7 Processes and Systems
16.7.1 Definition of Processes and Systems Risk
16.7.2 Controls
16.7.3 Regulatory and Statutory Requirements
16.7.4 Continuity
16.7.5 Indicators of Loss
16.7.6 Transactions
16.7.7 Computer/IT Systems
16.7.8 Knowledge Management
16.7.9 Project Management
16.8 External Events
16.8.1 Change Management
16.8.2 Business Continuity
16.9 Outsourcing
16.10 Measurement
16.11 Mitigation
16.12 Summary
16.13 References

17 Technological Risk Management

17.1 Definition of Technology Risk
17.2 Scope of Technology Risk
17.3 Benefits of Technology Risk Management
17.4 Implementation of Technology Risk Management 311
17.5 Primary Technology Types 312
  17.5.1 Information Technology 312
  17.5.2 Communications Technology 315
  17.5.3 Control Technology 319
17.6 Responding to Technology Risk 324
  17.6.1 IT Governance 324
  17.6.2 Investment 326
  17.6.3 Projects 329
17.7 Summary 330
17.8 References 331

18 Project Risk Management 333
  18.1 Definition of Project Risk 334
  18.2 Definition of Project Risk Management 334
  18.3 Sources of Project Risk 335
  18.4 Benefits of Project Risk Management 335
  18.5 Embedding Project Risk Management 336
    18.5.1 Common Challenges in Implementing Project Risk Management 336
    18.5.2 Lack of Clearly Defined and Disseminated Risk Management Objectives 337
    18.5.3 Lack of Senior Executive and Project Director Commitment and Support 337
    18.5.4 Lack of a Risk Maturity Model 337
    18.5.5 Lack of a Change Process to Implement the Discipline 338
    18.5.6 No Common Risk Language (Terms and Definitions) 338
    18.5.7 Lack of Articulation of the Project Sponsor’s Risk Appetite 338
    18.5.8 No Definition of Roles and Responsibilities 339
    18.5.9 Lack of Risk Management Awareness Training to Build Core Competencies 339
    18.5.10 Lack of Integration of Risk Management with Other Project Disciplines 340
    18.5.11 Reticence of Project Personnel to Spend Time on Risk Management 340
    18.5.12 Risk Owners not Automatically Taking Responsibility for Assigned Risks 341
    18.5.13 No Clear Demonstration of How Risk Management Adds Value and Contributes to Project Performance 341
    18.5.14 Overcomplicated Implementation from an Unclear Risk Policy, Strategy, Framework, Plan and Procedure 341
    18.5.15 Lack of Alignment between the Business Strategy, Business Model and the Risk Management Objectives 341
    18.5.16 Lack of the Integration of Risk Management Activities into the Day-to-Day Activities of Project Managers 342
18.6 Project Risk Management Process
   18.6.1 Establish the Context
   18.6.2 Risk Identification
   18.6.3 Risk Analysis
   18.6.4 Risk Evaluation
   18.6.5 Risk Treatment
   18.6.6 Risk Monitoring and Review
   18.6.7 Communication and Consultation
18.7 Responsibility for Project Risk Management
18.8 Project Director’s Role
18.9 Project Team
   18.9.1 Lack of Team Structure
   18.9.2 Lack of Definition of Roles
   18.9.3 Lack of Responsibility Assignment Matrix
   18.9.4 Poor Leadership
   18.9.5 Poor Team Communication
18.10 Optimism Bias
   18.10.1 The Investment Decision
   18.10.2 Optimism Bias
   18.10.3 Monitoring
   18.10.4 Using Numerical Indicators in Project Decision Making
   18.10.5 Causes of Optimism Bias
   18.10.6 The Distinction between Risk Events and Optimism Bias
18.11 Software Tools Used to Support Project Risk Management
18.12 Techniques Used to Support Project Risk Management
18.13 Summary
18.14 References

19 Business Ethics Management
   19.1 Definition of Business Ethics Risk
   19.2 Scope of Business Ethics Risk
   19.3 Benefits of Ethics Risk Management
   19.4 How Unethical Behaviour can Arise
   19.5 Recognition of the Need for Business Ethics
      19.5.1 US Department of Commerce
      19.5.2 The G8 Summit in Italy Pushes for a Return to “Ethics”
      19.5.3 OECD and Its Approach to Business Ethics
      19.5.4 UK Financial Services Authority
      19.5.5 US Department of Justice
   19.6 Factors that Affect Business Ethics
   19.7 Risk Events
   19.8 Implementation of Ethical Risk Management
      19.8.1 Areas of Focus
      19.8.2 Levels of Application
      19.8.3 The System
20 Health and Safety Management

20.1 Definition of Health and Safety Risk
20.2 Scope of Health and Safety Risk
20.3 Benefits of Health and Safety Risk Management
   20.3.1 Business Benefits
   20.3.2 The Enterprise Context: AstraZeneca
20.4 The UK Health and Safety Executive
   20.4.1 The UK Perspective: Health and Safety Record
20.5 The European Agency for Safety and Health at Work
   20.5.1 Main Challenges Concerning Health and Safety at Work
20.6 Implementation of Health and Safety Risk Management
   20.6.1 Management Arrangements
   20.6.2 Risk Controls
   20.6.3 Workplace Precautions
   20.6.4 System Implementation
20.7 Workplace Precautions
20.8 Contribution of Human Error to Major Disasters
   20.8.1 Tenerife, 27 March 1977
   20.8.2 Chernobyl, 26 April 1986
   20.8.3 Kegworth, 8 January 1989
   20.8.4 Herald of Free Enterprise, 6 March 1987
   20.8.5 Piper Alpha, 6 July 1988
   20.8.6 Ladbroke Grove, 5 October 1999
20.9 Improving Human Reliability in the Workplace
20.10 Risk Management Best Practice
   20.10.1 Crisis Management Plan
20.11 Summary
20.12 References

PART IV EXTERNAL INFLUENCES – MACRO FACTORS

21 Economic Risk

21.1 Definition of Economic Risk
21.2 Scope of Economic Risk
21.3 Benefits of Economic Risk Management
21.5 Microeconomics and Macroeconomics
21.6 Macroeconomics
   21.6.1 Gross Domestic Product
21.7 Government Policy
   21.7.1 Fiscal Policy
21.7.2 Monetary Policy 397
21.7.3 Competing Theories 398

21.8 Aggregate Demand 398
21.8.1 Using Aggregate Demand Curves 399
21.8.2 Determinants of Consumer Spending 399
21.8.3 Determinants of Investment Expenditure 400
21.8.4 Determinants of Government Spending 400
21.8.5 Determinants of Net Expenditure on Exports and Imports 401

21.9 Aggregate Supply 401
21.10 Employment Levels 403
21.11 Inflation 403
21.12 Interest Rate Risk 404
21.13 House Prices 405

21.14 International Trade and Protection 405
21.14.1 Trade 405
21.14.2 Methods of Protectionism 406
21.14.3 Trade Policy 406
21.14.4 Balance of Trade 406

21.15 Currency Risk 407
21.15.1 Risk Mitigation by Hedging 407

21.16 Summary 412
21.17 References 412

22 Environmental Risk 413
22.1 Definition of Environmental Risk 413
22.2 Scope of Environmental Risk 415
22.3 Benefits of Environmental Risk Management 415
22.4 Implementation of Environmental Risk Management 415
22.5 Energy Sources 416
22.5.1 Renewable Energy 417
22.6 Use of Resources 419
22.7 Pollution 420
22.8 Global Warming 420
22.9 Response to Global Warming 422
22.9.1 Earth Summit 422
22.9.2 The Kyoto Protocol 422
22.9.3 Pollution Control Targets 422
22.9.4 Sufficiency of Emission Cuts 423
22.9.5 US Climate Pact 423
22.9.6 The Copenhagen Accord 424
22.9.7 European Union 425
22.9.8 Cancún Agreements 425
22.9.9 Domestic Government Response to Climate Change 426
22.9.10 Levy 427
22.9.11 Emissions Trading 428
22.9.12 Impact on Business 428
## Contents

22.10 Stimulation to Environmental Considerations  
22.10.1 FTSE4Good Index  
22.10.2 Carbon Trust  
22.10.3 Public Pressure  
22.11 Environmental Sustainability  
22.12 Summary  
22.13 References

### 23 Legal Risk

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.1 Definition of Legal Risk</td>
<td>435</td>
</tr>
<tr>
<td>23.2 Scope of Legal Risk</td>
<td>435</td>
</tr>
<tr>
<td>23.3 Benefits of Legal Risk Management</td>
<td>436</td>
</tr>
<tr>
<td>23.4 Implementation of Legal Risk Management</td>
<td>436</td>
</tr>
<tr>
<td>23.5 Business Law</td>
<td>437</td>
</tr>
<tr>
<td>23.6 Companies</td>
<td>438</td>
</tr>
<tr>
<td>23.6.1 The Company Name</td>
<td>438</td>
</tr>
<tr>
<td>23.6.2 The Memorandum of Association</td>
<td>438</td>
</tr>
<tr>
<td>23.6.3 Articles of Association</td>
<td>439</td>
</tr>
<tr>
<td>23.6.4 Financing the Company</td>
<td>439</td>
</tr>
<tr>
<td>23.6.5 The Issue of Shares and Debentures</td>
<td>440</td>
</tr>
<tr>
<td>23.6.6 The Official Listing of Securities</td>
<td>440</td>
</tr>
<tr>
<td>23.6.7 The Remedy of Rescission</td>
<td>440</td>
</tr>
<tr>
<td>23.6.8 Protection of Minority Interests</td>
<td>440</td>
</tr>
<tr>
<td>23.6.9 Duties of Directors</td>
<td>441</td>
</tr>
<tr>
<td>23.7 Intellectual Property</td>
<td>441</td>
</tr>
<tr>
<td>23.7.1 Patents</td>
<td>441</td>
</tr>
<tr>
<td>23.7.2 Copyright</td>
<td>445</td>
</tr>
<tr>
<td>23.7.3 Designs</td>
<td>446</td>
</tr>
<tr>
<td>23.8 Employment Law</td>
<td>447</td>
</tr>
<tr>
<td>23.9 Contracts</td>
<td>447</td>
</tr>
<tr>
<td>23.9.1 Essentials of a Valid Contract</td>
<td>447</td>
</tr>
<tr>
<td>23.9.2 Types of Contract</td>
<td>447</td>
</tr>
<tr>
<td>23.10 Criminal Liability in Business</td>
<td>448</td>
</tr>
<tr>
<td>23.10.1 Misdescriptions of Goods and Services</td>
<td>448</td>
</tr>
<tr>
<td>23.10.2 Misleading Price Indications</td>
<td>449</td>
</tr>
<tr>
<td>23.10.3 Product Safety</td>
<td>450</td>
</tr>
<tr>
<td>23.11 Computer Misuse</td>
<td>451</td>
</tr>
<tr>
<td>23.11.1 Unauthorised Access to Computer Material</td>
<td>451</td>
</tr>
<tr>
<td>23.11.2 Unauthorised Access with Intent to Commit or Facilitate Further Offences</td>
<td>451</td>
</tr>
<tr>
<td>23.11.3 Unauthorised Modification of Computer Material</td>
<td>451</td>
</tr>
<tr>
<td>23.12 Summary</td>
<td>452</td>
</tr>
</tbody>
</table>

### 24 Political Risk

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.1 Definition of Political Risk</td>
<td>454</td>
</tr>
<tr>
<td>24.2 Scope of Political Risk</td>
<td>454</td>
</tr>
<tr>
<td>24.2.1 Macropolitical Risks</td>
<td>454</td>
</tr>
<tr>
<td>24.2.2 Micropolitical Risks</td>
<td>455</td>
</tr>
</tbody>
</table>
24.3 Benefits of Political Risk Management 455  
24.4 Implementation of Political Risk Management 455  
24.5 Zonis and Wilkin Political Risk Framework 457  
24.6 Contracts 459  
24.7 Transition Economies of Europe 459  
24.8 UK Government Fiscal Policy 460  
24.9 Pressure Groups 461  
24.10 Terrorism and Blackmail 461  
24.11 Responding to Political Risk 462  
24.11.1 Assessing Political Risk Factors 463  
24.11.2 Prioritising Political Risk Factors 464  
24.11.3 Improving Relative Bargaining Power 464  
24.12 Summary 464  
24.13 References 465

25 Market Risk 467  
25.1 Definition of Market Risk 467  
25.2 Scope of Market Risk 468  
25.2.1 Levels of Uncertainty in the Marketing Environment 469  
25.3 Benefits of Market Risk Management 470  
25.4 Implementation of Market Risk Management 470  
25.5 Market Structure 470  
25.5.1 The Number of Firms in an Industry 471  
25.5.2 Barriers to Entry 471  
25.5.3 Product Homogeneity, Product Diversity and Branding 473  
25.5.4 Knowledge 473  
25.5.5 Interrelationships within Markets 474  
25.6 Product Life Cycle Stage 475  
25.6.1 Sales Growth 476  
25.7 Alternative Strategic Directions 476  
25.7.1 Market Penetration 477  
25.7.2 Product Development 477  
25.7.3 Market Development 479  
25.7.4 Diversification 481  
25.8 Acquisition 482  
25.9 Competition 483  
25.9.1 Price Stability 483  
25.9.2 Non-Price Competition 484  
25.9.3 Branding 485  
25.9.4 Market Strategies 486  
25.10 Price Elasticity/Sensitivity 489  
25.10.1 Elasticity 489  
25.10.2 Price Elasticity 489  
25.11 Distribution Strength 490  
25.12 Market Risk Measurement: Value at Risk 490  
25.12.1 Definition of Value at Risk 490  
25.12.2 Value at Risk 490  
25.12.3 VaR Model Assumptions 491
26 Social Risk

26.1 Definition of Social Risk
26.2 Scope of Social Risk
26.3 Benefits of Social Risk Management
26.4 Implementation of Social Risk Management
26.5 Education
26.6 Population Movements: Demographic Changes
26.6.1 The Changing Market
26.7 Socio-Cultural Patterns and Trends
26.8 Crime
26.8.1 Key Facts
26.9 Lifestyles and Social Attitudes
26.9.1 More Home Improvements
26.9.2 Motherhood, Marriage and Family Formation
26.9.3 Health
26.9.4 Less Healthy Diets
26.9.5 Smoking and Drinking
26.9.6 Long Working Hours
26.9.7 Stress Levels
26.9.8 Recreation and Tourism
26.10 Summary
26.11 References

PART V THE APPOINTMENT

27 Introduction

27.1 Change Process From the Client Perspective
27.1.1 Planning
27.1.2 Timely Information
27.1.3 Risk Management Resources
27.2 Selection of Consultants
27.2.1 Objectives
27.2.2 The Brief
27.2.3 Describing Activity Interfaces
27.2.4 Appointment Process Management
27.2.5 The Long-Listing Process
27.2.6 Short-List Selection Criteria
27.2.7 Request for a Short-Listing Interview
27.2.8 Compilation of Short List
27.2.9 Prepare an Exclusion Notification
27.2.10 Prepare Tender Documents 520
27.2.11 Agreement to be Issued with the Tender Invitation 521
27.2.12 Tender Process 521
27.2.13 Award 521
27.2.14 Notification to Unsuccessful Tenderers 522
27.3 Summary 522
27.4 Reference 522

28 Interview with the Client 523
28.1 First Impressions/Contact 523
28.2 Client Focus 524
28.3 Unique Selling Point 524
28.4 Past Experiences 526
28.5 Client Interview 527
28.5.1 Scene/Overview 527
28.5.2 Situation/Context 527
28.5.3 Scheme/Plan of Action 527
28.5.4 Solution Implementation 528
28.5.5 Success, Measurement of 528
28.5.6 Secure/Continue 528
28.5.7 Stop/Close 528
28.6 Assignment Methodology 528
28.7 Change Management 529
28.8 Sustainable Change 529
28.9 Summary 530
28.10 References 531

29 Proposal 533
29.1 Introduction 533
29.2 Proposal Preparation 533
29.2.1 Planning 533
29.2.2 Preliminary Review 534
29.3 Proposal Writing 534
29.3.1 Task Management 534
29.3.2 Copying Text 534
29.3.3 Master Copy 534
29.3.4 Peer Review 534
29.4 Approach 535
29.5 Proposal 535
29.5.1 Identify the Parties – the Who 535
29.5.2 Identify the Location – the Where 537
29.5.3 Understand the Project Background – the What 537
29.5.4 Define the Scope – the Which 537
29.5.5 Clarify the Objectives – the Why 537
29.5.6 Determine the Approach – the How 538
29.5.7 Determine the Timing – the When 538
29.6 Client Responsibilities 538
<table>
<thead>
<tr>
<th>Contents</th>
<th>xxv</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix 13: Industry Breakpoints</td>
<td>599</td>
</tr>
<tr>
<td>Appendix 14: Probability</td>
<td>601</td>
</tr>
<tr>
<td>Appendix 15: Value at Risk</td>
<td>611</td>
</tr>
<tr>
<td>Appendix 16: Optimism Bias</td>
<td>613</td>
</tr>
<tr>
<td>Index</td>
<td>621</td>
</tr>
</tbody>
</table>