





Preface		xiii
Ac	knowledgements	xv
Ab	oout the authors	xvi
List of principal abbreviations		
Illu	ustrations credits	xix
1	Health and safety foundations	1
	1.1 Introduction	1
	1.2 Some basic definitions	2
	1.3 The legal framework for health and safety	3
	1.4 The legal system in England and Wales	4
	1.5 The legal system in Scotland	5
	1.6 European Courts	5
	1.7 Sources of law (England and Wales)	5
	1.8 Common law torts and duties	6
	1.9 Levels of statutory duty	7
	1.10 The influence of the EU on health and safety	9
	1.11 The Health and Safety at Work Act 1974	14
	<ul><li>1.12 The Management of Health and Safety at Work Regulations 1999</li><li>1.13 Role and function of external agencies</li></ul>	14
	<ul><li>1.13 Role and function of external agencies</li><li>1.14 Sources of information on health and safety</li></ul>	15
	1.15 Moral, legal and financial arguments for health and safety management	16
	<b>1.16</b> The framework for health and safety management	20
	1.17 Practice NEBOSH questions for Chapter 1	21
2	Policy	23
	2.1 Introduction	23
	2.2 Legal requirements	23
	2.3 Key elements of a health and safety policy	24
	2.4 Review of health and safety policy	26
	2.5 Practice NEBOSH questions for Chapter 2	27
	Appendix 2.1 - Health and safety policy checklist	28
3	Organizing for health and safety	31
	3.1 Introduction	31
	3.2 Control	32
	3.3 Employers' responsibilities	32

	3.4	Employees' responsibilities	32
	3.5	Organizational health and safety responsibilities	33
	3.6	Role and functions of health and safety and other advisers	34
	3.7	Persons in control of premises	35
	3.8	Self-employed	35
	3.9	The supply chain	36
	3.10	Contractors	39
	3.11	Joint occupation of premises	43
		Consultation with the workforce	44
	3.13	Practice NEBOSH questions for Chapter 3	45
		Appendix 3.1 – Typical organizational responsibilities	47
		Appendix 3.2 – Checklist for supply chain health and safety management	49
4	Prom	oting a positive health and safety culture	51
	4.1	Introduction	5-
	4.2	Definition of a health and safety culture	5-
	4.3	Safety culture and safety performance	52
	4.4	Human factors and their influence on safety performance	53
	4.5	Human errors and violations	57
	4.6	The development of a positive health and safety culture	59
		Effective communication	6-
		Health and safety training	62
		Internal influences	64
		External influences	65
	4.11	Practice NEBOSH questions for Chapter 4	66
5	Risk a	assessment	69
	5.1	Introduction	69
	5.2	Legal aspects of risk assessment	69
		Forms of risk assessment	70
		Some definitions	70
		The objectives of risk assessment	71
	5.6	Accident categories	72
	5.7	Health risks	72
	5.8	The management of risk assessment	72
	5.9	The risk assessment process	73
	5.10 5.11	Risk control measures	74
		Hierarchy of risk control  Prioritization of risk control	74
	5.12	Record of risk assessment findings	78
	5.14	· · · · · · · · · · · · · · · · · · ·	75 75
		Special cases	76
		Practice NEBOSH questions for Chapter 5	77
	00	Appendix 5.1 – Hazard checklist	79
		Appendix 5.2 - Example of a risk assessment record	80
6	Dulin -	inles of pontrol	
6	6.1	iples of control Introduction	81
	Q. T	Introduction	8-
	60	Principles of prevention	0.4
		Principles of prevention General control measures	8 <sup>-</sup> 82

	6.4	Controlling health risks	89
	6.5	Safe systems of work	91
	6.6	Lone workers	95
	6.7	Permits to work	95
	6.8	Emergency procedures	98
	6.9	First aid at work	99
	6.10	Practice NEBOSH questions for Chapter 6	103
		Appendix 6.1 – Job safety analysis form	105
		Appendix 6.2 - Example of a safety method statement form	106
		Appendix 6.3 – Essential elements of a permit-to-work form	107
7	Monit	oring review and audit	109
	7.1	Introduction	109
	7.2	The traditional approach to measuring health and safety performance	109
	7.3	Why measure performance?	110
	7.4	What to measure	111
	7.5	Measuring failure – reactive monitoring	112
	7.6	Proactive or active monitoring – how to measure performance	112
	7.7	Who should monitor performance?	114
	7.8	Frequency of monitoring and inspections	114
	7.9	Report writing	115
	7.10	Review and audit	117
	7.11	Practice NEBOSH questions for Chapter 7	118
		Appendix 7.1 – Workplace inspection exercises  Appendix 7.2 – Checklist of items to be covered in a construction site inspection	120 122
_			
8		ent investigation, recording and reporting	127
	8.1	Introduction	127
	8.2	Reasons for incident/accident investigation	128
	8.3	Which incidents/accidents should be investigated?	129
	8.4	Investigations and causes of incidents	129
	8.5	Legal recording and reporting requirements	132 134
	8.6	Typical examples of incidents within the construction industry	
	8.7		7 '2 /1
	00	Internal systems for collecting and analysing incident data	134
	8.8 8.0	Compensation and insurance issues	135
		Compensation and insurance issues Practice NEBOSH questions for Chapter 8	135 136
		Compensation and insurance issues	135
9	8.9	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims	135 136 138 140
9	8.9	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management	135 136 138 140 <b>143</b>
9	8.9 Cons 9.1	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction	135 136 138 140 <b>143</b>
9	8.9 Cons 9.1 9.2	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction	135 136 138 140 <b>143</b> 143
9	8.9 Cons 9.1 9.2 9.3	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry	135 136 138 140 <b>143</b> 144 144
9	8.9 Cons 9.1 9.2 9.3 9.4	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management	135 136 138 140 <b>143</b> 143 144 145
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry	135 136 138 140 <b>143</b> 144 145 146 150
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5 9.6	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry Scope and application of the CDM regulations	135 136 138 140 <b>143</b> 144 145 146 150
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5 9.6 9.7	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry Scope and application of the CDM regulations Sources of information on health and safety in construction	135 136 138 140 <b>143</b> 144 145 146 150
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5 9.6	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry Scope and application of the CDM regulations Sources of information on health and safety in construction Practice NEBOSH questions for Chapter 9	135 136 138 140 <b>143</b> 144 145 146 150
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5 9.6 9.7	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry Scope and application of the CDM regulations Sources of information on health and safety in construction Practice NEBOSH questions for Chapter 9 Appendix 9.1 – Summary of application and notification under CDM 2007	135 136 138 140 <b>143</b> 144 145 146 150 151
9	8.9 Cons 9.1 9.2 9.3 9.4 9.5 9.6 9.7	Compensation and insurance issues Practice NEBOSH questions for Chapter 8 Appendix 8.1 – Injury report form Appendix 8.2 – Information for insurance/compensation claims  truction law and management Introduction The scope and definition of construction Particular issues relating to the construction industry Moral, legal and financial arguments for health and safety management The role of the regulator in the improvement of health and safety in the construction industry Scope and application of the CDM regulations Sources of information on health and safety in construction Practice NEBOSH questions for Chapter 9	135 136 138 140 <b>143</b> 145 146 150 151 166 168

10	Cons	struction site issues – hazards and control	173
	10.1	Introduction	173
	10.2	General hazards and controls	174
	10.3	Initial site assessment	176
	10.4	Site controls	177
	10.5	Provision of welfare facilities	180
	10.6	Practice NEBOSH questions for Chapter 10	182
		Appendix 10.1 - A typical set of site rules	184
11	Move	ement of people and vehicles – hazards and control	185
	11.1	Introduction	185
	11.2	Hazards to pedestrians	185
	11.3	Control strategies for pedestrian hazards	187
	11.4	Hazards to the general public and the associated controls in construction activities, including	
		public highways	190
	11.5	Mobile work equipment	192
	11.6	Safe driving	194
	11.7	Control strategies for mobile plant operations	195
	11.8	The management of vehicle movements	196
	11.9	Hazards and controls of vehicles on construction sites	196
	11.10	Managing occupational road safety	201
	11.11	Practice NEBOSH questions for Chapter 11	205
12	Manı	ual and mechanical handling hazards and control	207
	12.1	Introduction	207
	12.2	Manual handling hazards and injuries	207
	12.3	Manual handling risk assessments	209
	12.4	Safety in the use of lifting and moving equipment	213
	12.5	Types of mechanical handling and lifting equipment	214
	12.6	Requirements for the statutory examination of lifting equipment	222
	12.7	Practice NEBOSH questions for Chapter 12	222
		Appendix 12.1 - Manual handling of loads assessment checklist	224
		Appendix 12.2 - A typical risk assessment for an excavator to be used for lifting	227
		Appendix 12.3 - A typical risk assessment for the use of lifting equipment	228
13	Work	c equipment hazards and control	229
	13.1	Introduction	229
	13.2	Suitability of work equipment and CE marking	229
	13.3	Use and maintenance of equipment with specific risks	231
	13.4	Information, instruction and training	231
	13.5	Maintenance and inspection	232
	13.6	Operation and working environment	234
	13.7	Users' and hirers' responsibilities	236
	13.8	Hand-held tools	236
	13.9	Hand-held power tools	238
	13.10	Mechanical machinery hazards	248
	13.11	Non-mechanical machinery hazards	250
	13.12	Examples of machinery hazards	250
	13.13	Control measures for machinery hazards	253
	13.14	Other safety devices	256
	13.15	Application of controls to the range of machines	257

### ### ##############################		13.16	Guard construction	265
14.1 Introduction 14.2 Principles of electricity and some definitions 14.3 Electrical hazards and injuries 14.4 General control measures for electrical hazards 14.5 The selection and suitability of equipment 14.6 Inspection and maintenance strategies 14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Welthods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.80 Common causes of fire and conjsequences 15.9 Fire isk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Maintenance and testing of firefighting equipment 15.16 Fire merregency plans 15.17 Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.3 — Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Prequirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		13.17	Practice NEBOSH questions for Chapter 13	265
14.1 Introduction 14.2 Principles of electricity and some definitions 14.3 Electrical hazards and injuries 14.4 General control measures for electrical hazards 14.5 The selection and suitability of equipment 14.6 Inspection and maintenance strategies 14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Principles of fire protection in buildings 15.15 Maintenance and testing of firefighting equipment 15.16 Fire emergency plans 15.17 Fire remergency plans 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Precedure remotes of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene	14	Electi	rical hazards and control	267
14.3 Electrical hazards and injuries 14.4 General control measures for electrical hazards 14.5 The selection and suitability of equipment 14.6 Inspection and maintenance strategies 14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Privosion of firefighting equipment 15.14 Maintenance and testing of firefighting equipment 15.15 Maintenance and testing of firefighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene	•	14.1	Introduction	267
<ul> <li>14.4 General control measures for electrical hazards</li> <li>14.5 The selection and suitability of equipment</li> <li>14.6 Inspection and maintenance strategies</li> <li>14.7 Portaction against contact with live overhead power lines</li> <li>14.9 Protection against contact with live overhead power lines</li> <li>14.9 Practice NEBOSH questions for Chapter 14</li> <li>15 Fire hazards and control</li> <li>15.1 Introduction</li> <li>15.2 The RRFSO – requirements</li> <li>15.3 CDM 2007</li> <li>15.4 Basic principles of fire</li> <li>15.5 Methods of extinction</li> <li>15.6 Classification of fire</li> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire isk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Price procedures and people with a disability</li> <li>15.16 Fire procedures and epople with a disability</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH</li></ul>		14.2	· · · · · · · · · · · · · · · · · · ·	267
14.5 The selection and suitability of equipment 14.6 Inspection and maintenance strategies 14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Protection against contact with live overhead power lines 14.9 Practice NEBOSH questions for Chapter 14  15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Maintenance and testing of firefighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.9 Health surveillance and personal hygiene		14.3		269
14.6 Inspection and maintenance strategies 14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Practice NEBOSH questions for Chapter 14  15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Maintenance and testing of lirefighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		14.4		274
14.7 Portable electrical appliances testing 14.8 Protection against contact with live overhead power lines 14.9 Practice NEBOSH questions for Chapter 14  15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Fire emergency plans 15.17 Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of biological agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		14.5	• • •	275
14.8 Protection against contact with live overhead power lines 14.9 Practice NEBOSH questions for Chapter 14  15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of fireflighting equipment 15.15 Maintenance and testing of fireflighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveiliance and personal hygiene		14.6		277
14.9 Practice NEBOSH questions for Chapter 14  15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of fireflighting equipment 15.15 Maintenance and testing of fireflighting equipment 15.16 Fire emergency plans 15.17 Fire protectures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.9 Health surveillance and personal hygiene		14.7		278
15 Fire hazards and control 15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of fireflighting equipment 15.15 Maintenance and testing of fireflighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		14.8		281
15.1 Introduction 15.2 The RRFSO – requirements 15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Maintenance and testing of firefighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		14. <del>9</del>	Practice NEBOSH questions for Chapter 14	282
<ul> <li>15.2 The RRFSO – requirements</li> <li>15.3 CDM 2007</li> <li>15.4 Basic principles of fire</li> <li>15.5 Methods of extinction</li> <li>15.6 Classification of fire</li> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>	15	Fire h	azards and control	283
15.3 CDM 2007 15.4 Basic principles of fire 15.5 Methods of extinction 15.6 Classification of fire 15.7 Principles of heat transmission and fire spread 15.8 Common causes of fire and consequences 15.9 Fire risk assessment 15.10 Dangerous substances 15.11 Fire detection and warning 15.12 Means of escape in case of fire 15.13 Principles of fire protection in buildings 15.14 Provision of firefighting equipment 15.15 Maintenance and testing of firefighting equipment 15.16 Fire emergency plans 15.17 Fire procedures and people with a disability 15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		15.1	Introduction	283
<ul> <li>15.4 Basic principles of fire</li> <li>15.5 Methods of extinction</li> <li>15.6 Classification of fire</li> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 - Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 - Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 - Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.2	The RRFSO – requirements	284
<ul> <li>15.5 Methods of extinction</li> <li>15.6 Classification of fire</li> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.3	CDM 2007	286
<ul> <li>15.6 Classification of fire</li> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 - Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 - Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 - Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.4	Basic principles of fire	287
<ul> <li>15.7 Principles of heat transmission and fire spread</li> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15</li> <li>Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006</li> <li>Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.5	Methods of extinction	289
<ul> <li>15.8 Common causes of fire and consequences</li> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.6	Classification of fire	289
<ul> <li>15.9 Fire risk assessment</li> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15  Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006  Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides  Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.7	Principles of heat transmission and fire spread	289
<ul> <li>15.10 Dangerous substances</li> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15  Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006  Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>			<b>4</b> · ○ <b>1</b>	291
<ul> <li>15.11 Fire detection and warning</li> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>			Fire risk assessment	292
<ul> <li>15.12 Means of escape in case of fire</li> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 - Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 - Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 - Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>			· ·	297
<ul> <li>15.13 Principles of fire protection in buildings</li> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15 Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>			<del>-</del>	299
<ul> <li>15.14 Provision of firefighting equipment</li> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15  Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006  Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice</li> <li>16 Chemical and biological health hazards and control</li> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		15.12	·	300
<ul> <li>15.15 Maintenance and testing of firefighting equipment</li> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15</li></ul>				302
<ul> <li>15.16 Fire emergency plans</li> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15</li></ul>				304
<ul> <li>15.17 Fire procedures and people with a disability</li> <li>15.18 Practice NEBOSH questions for Chapter 15</li></ul>				306
<ul> <li>15.18 Practice NEBOSH questions for Chapter 15</li></ul>				307
Appendix 15.1 – Fire risk assessment as recommended in Fire Safety Guides published by the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene			·	308
the Department for Communities and Local Government in 2006 Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		15.18	, · · · · · · · · · · · · · · · · · · ·	308
Appendix 15.2 – Example form for recording significant findings as published in 2006 by the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene				
the Department for Communities and Local Government in their Fire Safety Guides Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene				310
Appendix 15.3 – Typical fire notice  16 Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene				2.42
16. Chemical and biological health hazards and control 16.1 Introduction 16.2 Forms of chemical agent 16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene			·	312
<ul> <li>16.1 Introduction</li> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>			Appendix 15.3 – Typical fire notice	313
<ul> <li>16.2 Forms of chemical agent</li> <li>16.3 Forms of biological agent</li> <li>16.4 Classification of hazardous substances and their associated health risks</li> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>	16	Chen	nical and biological health hazards and control	315
16.3 Forms of biological agent 16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		16.1	Introduction	315
16.4 Classification of hazardous substances and their associated health risks 16.5 Routes of entry to the human body 16.6 Health hazards of specific agents 16.7 Requirements of the COSHH Regulations 16.8 Details of a COSHH assessment 16.9 The control measures required under the COSHH Regulations 16.10 Health surveillance and personal hygiene		16.2	Forms of chemical agent	315
<ul> <li>16.5 Routes of entry to the human body</li> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		16.3	Forms of biological agent	316
<ul> <li>16.6 Health hazards of specific agents</li> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		16.4	Classification of hazardous substances and their associated health risks	316
<ul> <li>16.7 Requirements of the COSHH Regulations</li> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		16.5	Routes of entry to the human body	318
<ul> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		16.6	Health hazards of specific agents	320
<ul> <li>16.8 Details of a COSHH assessment</li> <li>16.9 The control measures required under the COSHH Regulations</li> <li>16.10 Health surveillance and personal hygiene</li> </ul>		16.7	Requirements of the COSHH Regulations	325
16.10 Health surveillance and personal hygiene		16.8	·	326
1 7 7		16.9	The control measures required under the COSHH Regulations	329
		16.10	Health surveillance and personal hygiene	336
		16.11	Maintenance and emergency controls	336

	16.12	Control of asbestos	337
	16.13	The transport of hazardous substances by road	340
	16.14	An Illustrative example using COSHH controls	340
	16.15	Environmental considerations	341
	16.16	Practice NEBOSH questions for Chapter 16	344
		Appendix 16.1 - Health questionnaire for on-going surveillance of persons working	
		with respiratory sensitizers	347
17	Phys	ical and psychological health hazards and control	349
	-	Introduction	349
	17.2	Task and workstation design	349
		Work environment issues	357
	17.4	Noise	358
	17.5	Heat and radiation hazards	365
	17.6	The causes and prevention of workplace stress	368
	17.7	The causes and prevention of workplace violence	370
	17.8	The effects of alcohol and drugs	373
	17.9	Practice NEBOSH questions for Chapter 17	374
		Appendix 17.1 – Smokefree workplaces	376
18	Work	ing at height – hazards and control	377
	18.1	Introduction	377
	18.2	The Work at Height Regulations 2004 (WAHR)	377
	18.3	Construction hazards and controls from working at height	379
	18.4	Working above ground or where there is a risk of falling	383
	18.5	Practice NEBOSH questions for Chapter 18	400
		Appendix 18.1 - Inspection recording form with timing and frequency chart	403
		Appendix 18.2 - Checklist of typical scaffolding faults	405
		Appendix 18.3 - Checklist for a safety inspection of a scaffold	405
		Appendix 18.4 – Examples of safe systems of work used in roof work	406
19		vation work and confined spaces – hazards and control	407
	19.1	Introduction	407
	19.2	Excavations – hazards and control	407
	19.3	Confined spaces	416
	19.4	Practice NEBOSH questions for Chapter 19	419
		Appendix 19.1 – An example of safe digging practice	421
		Appendix 19.2 - Typical excavation work risk assessment	422
		Appendix 19.3 – Typical confined spaces risk assessment	423
20		olition – hazards and control	425
	20.1	Introduction	425
	20.2	Principal hazards of demolition work	425
	20.3	Pre-demolition investigation and survey	426
	20.4	Demolition method statement	427
	20.5	Management of the demolition and general controls	430
	20.6	Specific issues	431
	20.7	Practice NEBOSH questions for Chapter 20	433
		Appendix 20.1 – Checklist for a safe system of work	434

21	Sumn	nary of the main legal requirements	433
-	21.1	Introduction	435
	21.2	The legal framework	435
	21.3	List of Acts and Regulations summarized	436
	21.4	Health and Safety at Work Etc Act (HSW Act) 1974	437
	21.5	Environmental Protection Act 1990	440
	21.6	The New Roads and Street Works Act 1991	448
	21.7	Control of Asbestos Regulations 2006	451
	21.8	Chemicals (Hazard Information and Packaging for Supply) Regulations 2002	460
	21.9	Confined Spaces Regulations 1997	465
	21.10	Construction (Design and Management) (CDM) Regulations 2007	467
	21.11	Construction (Head Protection) Regulations 1989	479
	21.12	Health and Safety (Consultation with Employees) Regulations 1996	479
	21.12	Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 amendment	481
		Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) 2002	484
	21.14	Health and Safety (Display Screen Equipment) Regulations 1992	487
	21.15	Electricity at Work Regulations 1989	489
	21.16	Employers' Liability (Compulsory Insurance) Act 1969 and Regulations 1998 amended in 2004	491
	21.17		493
	21.18	Fire Precautions Regulatory Reform (Fire Safety) Order 2005	501
	21.19	Health and Safety (First Aid) Regulations 1981 as amended in 2002	501
	21.20	Health and Safety (Information for Employees) Regulations 1989	
	21.21	Hazardous Waste (England and Wales) Regulations 2005	502
	21.22	Ionising Radiation Regulations 1999	503
	21.23	Control of Lead at Work Regulations 2002	505
	21.24	Lifting Operations and Lifting Equipment Regulations 1998	507
	21.25	Management of Health and Safety at Work Regulations 1999 as amended in 2003 and 2006	510
	21.26	Manual Handling Operations (MHO) Regulations 1992 as amended in 2002	513
	21.27	Control of Noise at Work Regulations 2005	514
	21.28	Personal Protective Equipment at Work Regulations 1992 as amended in 2002	520
	21.29	Provision and Use of Work Equipment Regulations 1998 (except Part IV) as amended in 2002	521
	21.30	The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995	526
	21.31	Safety Representatives and Safety Committees Regulations 1977	529
	21.32	Health and Safety (Safety Signs and Signals) Regulations 1996	530
	21.33	Supply of Machinery (Safety) Regulations 1992	532
	21.34	Control of Vibration at Work Regulations 2005	535
	21.35	Workplace (Health, Safety and Welfare) Regulations 1992 as amended in 2002	537
	21.36	Work at Height Regulations 2005 as amended in 2007	540
	21.37	Other relevant Regulations in brief	544
	21.38	Health and Safety Executive from 1st April 2008	548
22	Inter	national aspects of health and safety in construction	549
_	22.1	Introduction	549
	22.2	The role and function of the ILO	550
	22.3	Major occupational health and safety management systems	553
	22.4		558
	22.5	·	561
	22.5 22.6	<b>0</b> ,	50
	44.0	·	562
	20.7	management systems	562
	22.7		502
	22.8	health and safety	563

	22.9	A brief review of the issues facing the international construction industry	564
	22.10	Practice NEBOSH questions for the International General Certificate	565
		Appendix 22.1 – Scaffolds and ladders	565
23	Study	v skills	567
	23.1	Introduction	567
	23.2	Finding a place to study	567
	23.3	Planning for study	567
	23.4	Blocked thinking	568
	23.5	Taking notes	568
	23.6	Reading for study	568
	23.7	Revision	568
	23.8	Organizing information	569
	23.9	How does memory work?	569
	23.10	How to deal with exams	570
	23.11	The examiners' reports	572
	23.12	Conclusion	573
	23.13	References	573
24	Spec	imen answers to NEBOSH examinations	575
	24.1	Introduction	575
	24.2	The written examinations	575
	24.3	NCC2 - The practical application	580
		Appendix 24.1 - The practical assessment	585
Index			589