

- Notes: (1) The advanced level syllabus is assumed to include all the standard level topics as a pre-requisite. They may also be examined in greater <u>depth</u> at advanced level.
 - (2) The advanced level syllabus would also involve the <u>additional</u> range of topics as set out in the table below.
 - (3) The suggested reading is intended to give an indication of the scope and depth of the topics to be examined.

Advanced level (additional items)	Some overseas	Further U.K. covers, as included in the current B3 examination	Outline knowledge of overseas markets	Some overseas		A11 A11	AII			Interpretation and use of statutory returns	Selected countries
Standard level	U.K.	Limited range of U.K. covers Private Car, Commercial Vehicles, Fleets Employers Liability, Household, Industrial Fire and Contractors All Risks.	U.K.	U.K.		All, but some starred All except Appendices, A3, A6, A7, A10, A11, A12 & B.	All, but some starred		U.K.	Principles	
Subject	 Working environment (a) Size and structure of market 	(b) Description of products	(c) Organisation of insurers and marketing methods.	(d) Role of the actuary	<u>ReadIng</u>	Introductory Monograph by G.B. Hey Documentation Monograph by Hudson & Taylor	Guidance Notes on Actuarial Reporting	2. <u>Insurance Companies Legislation</u>	(a) Historical perspective	<pre>(b) Current U.K. legislation and regulations</pre>	(c) Supervisory systems and controls overseas

Subject	Standard level	Advanced level (additional items)
Reading		
Statutory Regulation Monograph by W.M. Abbott	All (but section 5 to be starred) of existing monograph	All, including additional section and overseas
Sample Statutory Return	Starred	Yes
3. Accounts, Taxatlon and Financial Structure		
(a) Basic Accounting principles	Yes	
<pre>(b) Company accounts for direct business, revenue accounts (one/three year), profit and loss accounts and balance sheets.</pre>	Elements	Interpretation of results and understanding of implications.
(c) tloyd's syndicates accounts.	Na	Yes
(d) General principles of taxation of general insurance companies	Yes	1
 (e) Financing, profitability and solvency of an insurance company, solvency margin and why needed 	Yes	
Reading		
Statutory Regulation Monograph		

Statutory Regulation Monograph

New Monograph - only specified

Taxation Monograph - (R.B. Akhurst)

Details awaited

AII

 4. Principles and Practice of Reinsurance (a) Objectives of reinsurance (b) Types of reinsurance Basic 		
	ward	lnward
	lc types	Extended list
(c) Organisation and practice of reinsurance market	No	Yes
(d) Reinsurance accounting Out	Outward	Inward
Reinsurance Monograph by G Lyons Detai	alls awaited	All
5. Technical Reserves		
One-year accounts Unearned Premium Reserve alternative methods of calculation and underlying assumptions	Yes	,
allowance for deferred acquisition costs	Yes	,
effect of inflation Additional reserve for unexpired risks Outstanding Claims reserves	No Yes	Yes -
	Case-by-case estimating, run off analyses, basic statistical methods, (e.g. chain-ladder, inflation - adjusted chain-ladder, separation, average cost/claim), claims-handling procedures inflation, monitoring results, combined methods with IBNR.	More advanced statistical methods, (e.g. Reid's method) Choosing methods and interpretation of results.

Advanced level (additional items)		- - Yes		IIA	A11	All Starred			Yes	Yes	Yes
Standard level	Methods of calculation, variation between classes, seasonal fluctu- ations, closing date, monitoring of results.	Yes Yes No			Details awaited	No			No	No	No
Subject	(11). IBNR claims	<pre>(ili). Reopened claims (iv). Claims expense provision B. Three-year accounts</pre>	5 <u>Reading</u>	Outstanding Claims Monograph by Ackman, Green and Young	New Monograph on Accounts etc see 3 above	GIRO paper by G Lyons working party	6 Other Reserves	A. Catastrophe Reserve	(a) Why and when required the events involved	(b) Effects of reinsurance	(c) Some considerations in determining size of reserve

Advanced level (additional items)		Yes		Yes	Yes	Yes		,						theory. Retro-rating techniques					Υρς	22- SeY	2.2.2	Yes	5 2	Yes	Yes	
Standard level		No		No	No	No		Yes		Yes			Bastr Ideas		Yes	Yes	Yes		No	No		No		No	No	
Subject	6. Continued.	B. Claims Equalisation Reserve	C. Free and Equalisation Reserves	(a) Need for solvency margin	(b) Need for smooth esperience	<u>Reading</u> New Monograph on Accounts, etc - see 3 above	7 Premiums	(a) Examination of statistical analyses	to identify risk factors	(b) Methods of calculating the effects	of each factor separately where the factors are accordance	the rection between effects of factors	(d) Experience rating (including NCD)			<pre>(f) Allocation of expenses between</pre>	_	(h) Translation of experience data into		Methods of obtaining office premiums		<pre>(j) Conflict between 'Theoretical' and</pre>	'Commercial rates'		 Market aspects, including transaction statistics 	25055255

Subject		Standard level	Advanced leve) (additional items)
Reading			
Monographs on Reinsurance, Accounts, etc. and Premiums/Expenses	Ŋ		A11
10. Risks of Insurance Business and their control			
(a) Risk of variation in claims experience; limitation by spread of portfolio and	No		Yes
<pre>use of continuation and relationed (b) Risk of adverse trend in experience, need for early identification and corrective action</pre>	No		Yes
<pre>(c) Risk of increase in inflation, need to limit exposure to that possibility, balancing the portfolio investing short</pre>	No		Yes
(d) Risk of fluctuations in asset values, matching	No		Yes
Reading			
Various parts of almost all monographs	No		Yes
11. <u>Modelling and Forecasting Applications</u>			
(a) Need for modelling, methodology(b) Timescale of operations, particularly	No No		Yes Yes
the impact of rating changes (c) Allowing for inflation and other factors, e.g. market competition	Ŷ		Yes
Reading			
Monographs on Accounts, etc. and Premiums/Expenses	No		Yes