Important Exam Information:

Exam Date and Time	A read-through time will be given prior to the start of the exam-15 minutes in the morning session and 15 minutes in the afternoon session.
Exam Registration	Candidates may register online or with an application.
Order Study Notes	Study notes are part of the required syllabus and are not available electronically but may be purchased through the online store.
Introductory Study Note	The Introductory Study Note has a complete listing of all study notes as well as errata and other important information.
Case Study	C 'ecug'uwf { 'y km'pqv'dg'wugf 'hqt 'y g'Ur tkpi '4233'uguukqp0
Past Exams	Past Exams from 2000-present are available on SOA web site.
<u>Updates</u>	Candidates should be sure to check the Updates page on the exam home page periodically for additional corrections or notices.

Exa	Exam: ILA - CSP TOPIC: Financial Reporting		
	earning Objectives		
1.	. The candidate will understand the preparation of financia insurance companies and be able to analyze the data in th	-	
Lea	earning Outcomes		
The	The candidate will be able to:		
A.	A. Construct the basic financial statement or its components for	a life insurance company.	
B.	 Describe the structure of the Canada Annual Statement and e and schedules. 	xplain the purpose of its statements, key exhibits	
C.	2. Describe how to compute the taxable income of a life insurar	ce company	
D.	D. Explain fair value accounting principles		
E.	Describe international accounting standards		
F.	. Develop, use and recommend methods for performing actual	ial reviews of reserves	
•	yllabus Resources Canadian Insurance Taxation, Third Edition, 2009, by PriceV Chapter 3 Liability for Income Tax, Chapter 4, Income for Tax Purposes – General Rules, Chapter 5, Investment Income,	/aterhouseCoopers	
	Chapter 6, Reserves, Chapter 11, Investment Income Tax, Chapter 27 Provincial Premium Taxes Background Only: Chapters 1, 2, 7-10 and 26		
•	Valuation of Life Insurance Liabilities:		
•	Chapter 1, Overview of Valuation Requirements ILA-C100-07: Financial Reporting Developments Accountin Activities: A Comprehensive Analysis of FA ILA-C102-09: Actuarial Review of Reserves and other Annu U A C127 11: http://www.compound.com/	S 133 (Overview and Appendix C) al Statement Liabilities, Ed Robbins	
•	ILA-C127-11: July 2010 Exposure Draft - Insurance Contrac ILA-C618-11 OSFI D-10, October 2009 ILA-C625-10: Market Value Margins for Insurance Liabilitie Applications, E&Y October 2007 through pag	s in Financial Reporting and Solvency	
•			
•		oceedings of the CIA, Vol. 20, September 2009	
•	An Approach to Fair Valuation of Insurance Liabilities Using 18-23	· · · · · ·	
•	http://www.soa.org/library/journals/north-american-actuarial- Fair Value of Liabilities: The Financial Economic Perspectiv		
•	http://www.soa.org/library/journals/north-american-actuarial-		

- CIA Educational Note: Calm implications of AcSB Section CICA 3855 Financial Instruments Recognition and Measurement – June 2006
 - http://www.actuaries.ca/members/publications/2006/206077e.pdf
- CIA Educational Note: Implications of CICA Accounting Standard 3855 and 1530 Jan 2007
 http://www.actuaries.ca/members/publications/2007/207002e.pdf
- Educational Note: Classification of Contracts under International Financial Reporting Standards <u>http://www.actuaries.ca/members/publications/2009/209066e.pdf</u>
- Research Paper: Changes in Accounting Policies under International Financial Reporting Standards <u>http://www.actuaries.ca/members/publications/2009/209061e.pdf</u>

Exa	um: ILA – CSP	TOPIC: Principles of Valuation	
Lea	Learning Objectives		
2.	The candidate will be able to understand and apply annuity products issued by Canada Life Insurance	v valuation principles of individual life insurance and companies.	
Lea	urning Outcomes		
The	e candidate will be able to:		
A.	i) Describe Valuation Methodsii) Recommend appropriate valuation assumptions.		
B.	 Calculate liabilities for the following products: i) Traditional life insurance ii) Term life insurance iii) Universal life insurance iv) Deferred annuity v) Payout annuity vi) Segregated Funds with guaranteed minimum deat vii) Segregated Funds with guaranteed living benefits viii) Riders 	h benefīts	
C.	Devise and use reserve audit methods		
Syl	labus Resources		
•	Valuation of Life Insurance Liabilities, Lombardi, Fou Chapter 1 Overview of Valuation Requirements	rth Edition, 2006	
•	CIA Consolidated Standards of Practice – Section 210 http://www.actuaries.ca/SOP_Doc/Complete/SOP_e_0	Complete_December09.pdf	
•	CIA Educational Note: Best Estimates Assumptions for http://www.actuaries.ca/members/publications/2006/2		
•	CIA Educational Note: Margins for Adverse Deviation		
	http://www.actuaries.ca/members/publications/2006/2	<u>06132e.pdf</u>	
•	CIA: Educational Note Valuation of Segregated Fund 2005)		
	http://www.actuaries.ca/members/publications/2005/2		
•	http://www.actuaries.ca/members/publications/2003/2 CIA Educational Note: Approximations to the Canadi		
1	http://www.actuaries.ca/members/publications/2006/2		
•	CIA Educational Note: Expected Mortality: Fully Uno July 2002	lerwritten Canadian Individual Life Insurance Policies:	
•	http://www.actuaries.ca/members/publications/2002/2 CIA: Use of Stochastic Techniques to Value Liabilitie http://www.actuaries.ca/members/publications/2001/2	s under Canadian GAAP: August 2001	
•	CIA Task Force on Segregated Fund Investment Guar http://info.worldbank.org/etools/docs/library/83954/ci	antees, March 2002 (Chapter 1-5)	
•	CIA: Dynamic Capital Adequacy Testing (DCAT) Ed http://www.actuaries.ca/members/publications/2007/2	ucation Note: November 2007,	
•	CIA Draft Educational Note: Valuation of Universal I	*	

http://www.actuaries.ca/members/publications/2006/206148e.pdf

- CIA Use of Actuarial Judgment in Setting Assumptions and Margins for Adverse Deviations, November 2006 <u>http://www.actuaries.ca/members/publications/2006/206147e.pdf</u>
- CIA Educational Note: Considerations in Valuation of Segregated Fund Products November 2007
 http://www.actuaries.ca/members/publications/2007/207109e.pdf
- Financial Reporter Article April 2009, Rubin, et. al Fair Value Accounting: Trouble-maker or Life-saver? http://www.soa.org/library/newsletters/financial-reporter/2009/april/frn-2009-iss76.pdf
- An Approach for measurement of the Fair Value of Insurance Contracts, Gutterman, et al., Actuarial Practice Forum, May 2007

http://www.soa.org/library/journals/actuarial-practice-forum/2007/may/APF0705_04.pdf

• CIA Educational note, Currency Risk in the Valuation of Policy Liabilities for Life and Health Insurers, December 2009

http://www.actuaries.ca/members/publications/2009/209121e.pdf

Exa	ım: ILA - CSP	TOPIC: <u>Reinsurance</u>
Lea	Learning Objectives	
3.	The candidate will be able to evaluate various for form, and describe the circumstances that would	rms of reinsurance, what the financial impact is of each make each type of reinsurance appropriate.
Lea	rning Outcomes	
A.	 assuming companies with respect to: i) risk transfer ii) cash flow, iii) financial statements iv) tax, and v) reserve credit requirements 	e consequences and calculate the effect on both ceding and priate reinsurance form from the ceding and assuming
Syl	labus Resources	
•	Canadian Insurance Taxation, Third Edition, 2009, Chapter 30, Reinsurance <i>Life and Health and Annuity Reinsurance</i> , Tiller, Th Chapter 4 Basic Methods of Reinsurance Chapter 5 Advanced Methods of Reinsurance Chapter 6 The Reinsurance Treaty	
•	ILA-C624-10:Discussion Paper on OSFI's Regulat Report of the CIA Task Force on the Appropriate T http://www.actuaries.ca/members/publications/200 Submission by the Canadian Institute of Actuaries CIA, March 2009 http://www.actuaries.ca/members/publications/200	Treatment of Reinsurance, Oct 2007 7/207081e.pdf to the Office of the Superintendent of Financial Institutions,

Exa	xam: ILA - CSP TOPIC:	Financial and Capital Management
Lea	earning Objectives	
4.	The candidate will be able to explain and apply the basic me management and embedded value creation in a life insurance	
Lea	earning Outcomes	
	ne candidate will be able to: Describe and calculate basic performance measures	
B.	Perform basic financial analysis by product line and total comp	any
C.	Explain and create a product line "gains by source" analysis	
D.	Apply methods of valuation to business and asset acquisitions a	nd sales
E.	Explain and apply the basic methods and approaches of surplus	management and earnings management
F.	Describe how securitization is used within capital management	
G.	Explain and apply the methods and principles of embedded values	le
H.	Describe and apply the principles of how insurance companies perspective	create value from a financial economics
Syl	vilabus Resources	
•	Life Insurance Products and Finance, Atkinson and Dallas, 20 Chapter 16	00
•	ILA-C106-07: Chapter 4 (Sections 4.1-4.6) in Mergers and Act	auisitions
•	ILA-C107-07: Securitization of Life Insurance Assets and Liab	
•	ILA-C110-07: The Economics of Insurance: How Insurers Creation	te Value for Shareholders
•	ILA-C603-07: OSFI Guideline D-9: Sources of Earnings Discle	
•	ILA-C626-10: PD #28 – Embedded Value (EV) and Market-Co Difference?, June 2008	
•	CIA: Sources of Earnings: Determination and Disclosure, Augu	
	http://www.actuaries.ca/members/publications/2004/204047e.p	
•	Embedded Value: Practice and Theory, SOA, Actuarial Practice http://www.soa.org/library/journals/actuarial-practice-forum/20	
•	Strategic Management of Life Insurance Company Surplus, TS.	
	http://www.soa.org/library/research/transactions-of-society-of-a	

Exa	am: ILA - CSP TOPIO	C: Financial and Capital Management
Lea	arning Objectives	
5.	The candidate will understand the Risk Based Capital (RI underlying the determination of Regulatory RBC and Eco	
Lea	arning Outcomes	
	e candidate will be able to: Describe the MCCSR/RBC regulatory framework and the prin RBC.	nciples underlying the determination of Regulatory
B.	 Compute MCCSR for a life insurance company, including: i) Identification of significant risk components ii) Identification of specialized product MCCSR requirement iii) Interpreting results from a regulatory perspective 	ıts
C. I	Explain and apply the concepts, approaches and method for det	ermining Economic Capital
Syll	llabus Resources	
•	Valuation of Liabilities, Lombardi, Fourth Edition, 2006	
	Chapter 1 Overview of Valuation Requirements	
•	Chapter 16 Risk-Based Capital ILA-C121-08: Economic Capital Modeling: Practical Consid	lerations Milliman White Paner
•	ILA-C606-11:OSFI: Guideline Minimum Continuing Capita Companies Chapters 1-5 and 8, December 2009 version	
•	ILA-C609-07: CIA: OSFI Submission: Future Direction of I ILA-C627-10: PD #9 Economic Capital Models, June 2008	nsurance Capital Rules: March 2005
•	ILA-C628-10: OSFI: Framework for New Standard Approac 2008	sh to Setting Capital Requirements November
•	ILA-C631-11: Key Principles for the Future Direction of the Insurance	
•	http://www.soa.org/files/pdf/research-ec-report.pdf	
•	• Economic Capital: The Controversy at the Watercooler, Fin	
	http://www.soa.org/library/newsletters/risk-management-ne	wsletter/2006/december/RMN0612.pdf
•	A Multi-Stakeholder Approach to Capital Adequacy <u>http://www.soa.org/files/pdf/APF0702_01.pdf</u>	
•	 Transitioning to RBC C3 Phase III, <i>Financial Reporter</i>, Ma 	rch 2010
	http://www.soa.org/library/newsletters/financial-reporter/20	

Exa	ım: ILA - CSP	TOPIC: Model Office and Asset/Liability Modeling
Lea	rning Objectives	
6. 1	The candidate will be able to integrate data from var	ious sources into model office and asset/liability models
	rning Outcomes	
	e candidate will be able to:	
A.	For an ALM model:	
	i) Select appropriate assumptions and scenarios	
	ii) Model dynamic behavior of both assets and liabil	
	iii) Model and explain various strategies, including h	edging
	iv) Analyze and evaluate resultsv) Recommend appropriate strategies	
	v) Recommend appropriate strategies	
B.	Apply a model office process and make appropriate re	ecommendations.
C.	Analyze and explain actual vs. projected differences	
D.	Explain limitations of models and possible sources of	error
	i) Quality of data	
	ii) Granularity of the model	
Syl	labus Resources	
•	Life Insurance Products and Finance, by Atkinson and	d Dallas, Chapters:
	Chapter 14 Financial Modeling	
	Chapter 15 Stochastic Modeling, pp. 785-831, 85	
•	Valuation of Life Insurance Liabilities, Lombardi, Fou	irth Edition, 2006
	Chapter 13	
•	ILA-C112-07: ALM for Insurers	
•		
•	ILA-C114-07: Life Insurance Forecasting and Liabilit	
•	ASOP #23: Data Quality http://www.actuarialstandard	

Exa	xam: ILA - CSP TOP	IC: Risk Management And Mitigation
	earning Objectives	
7. T asse	The candidate will be able to evaluate risks faced by a Con sets, and management strategies and practices, and be able ethods of risk mitigation.	
	earning Outcomes	
The	ne candidate will be able to: Identify, categorize and evaluate potential sources of risk in morbidity and lapse.	products including but not limited to mortality,
B.	Identify, categorize and evaluate potential sources of risk in liquidity and asset-liability matching.	investments including but not limited to credit risk,
C.	Describe and evaluate the other risks an insurance company expense risks.	faces including operational, marketplace and
D.	Describe how risks (e.g. product, investments and operationa firm strategy.	al) and opportunities interact and how they influence
E.	2. Describe and apply methods of risk mitigation and hedging and to understand the limitations of such methods.	
F.	E. Evaluate methods for measuring and controlling equity-based exposure associated with embedded options .	
G.	. Describe the roles of rating agencies, analysts and regulators together with their methods and impact on insurance companies.	
Svll	/llabus Resources	
•	ILA-C116-07:Mapping of Life Insurance Risks, AAA Report ILA-C124-10: S and P's Insurance Criteria: Refining the Foo Property/Casualty (Nonlife) Insurance Risk	
•	ILA-C125-10: Insurance Risk Management Response to the	Financial Crisis, CRO Forum, April 2009
•	Specialty Guide on ERM Chapters 1-6 <u>http://www.soa.org/library/professional-actuarial-specialty-guides/enterprise-risk-management/2005/august/spg0605erm.pdf</u>	
•	Stochastic Analysis of Long Term Multiple-Decrement Cont Appendices http://www.soa.org/files/pdf/research-stochastic.pdf	tracts, Clark and Runchey, Jan 2008 – Exclude

Exa	ım: ILA - CSP	TOPIC: Professional Considerations	
Lea	Learning Objectives		
8. 7	The candidate will understand the professional stan	dards addressing financial reporting and valuation.	
Lea	rning Outcomes		
The	e candidate will be able to:		
A.			
B.	Identify and apply relevant professional actuarial qua	alification standards.	
C.	Identify and apply actuarial standards of practice rele	evant to financial reporting and valuation.	
D.	Explain the actuary's professional responsibilities to	stakeholders including obligations under Sarbanes-Oxley	
Syl	labus Resources		
•	ILA-C119-07: Chapter 19 of <i>Life Insurance and Acc</i> Reports and Reports to Regulatory Bodies"	ident and Health Insurance Accounting, "Management	
 ILA-C126-10: KPMG SEC Guidance on Internal Control Over Financial Reporting, June 2007 			
 ILA-C620-09: OSFI: Guidalice on Internal Control Over Financial Reporting, successful 2007 ILA-C620-09: OSFI: Guideline E15: Sound Business and Financial Practices: Appointed Actuary: Legal 			
	Requirements, Qualification and External Review: November 2006		
•	ILA-C622-10: CIA: Consolidated Standards of Pract		
•	Actuarial Aspects of SOX 404, 12/04 Financial Repo		
	http://www.soa.org/library/newsletters/financial-report		
•		Sarbanes-Oxley control: Effectiveness in Accordance with	
	Actuarial Standards of Practice, 12/04 Financial Rep		
	http://www.soa.org/library/newsletters/financial-report	orter/2004/december/frn0412.pdf	