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.
Study Note Order Form	Study notes are part of the required syllabus and are not available electronically.
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	The Case Study will also be distributed in the Study Note package. A copy of the case study will be provided with the examinations. Candidates will not be allowed to bring their copy of the case study into the examination room.
Past Exams	Past Exams from 2000-present are available on SOA web site.
Updates	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		
Lea	arning Objectives		
1.	. The candidate will understand the preparation of financial statements and reports of Canadian life insurance companies and be able to analyze the data in them.		
	arning Outcomes		
The	e candidate will be able to:		
A.	Prepare the basic financial statements for a life insurance company.		
B.	Describe the structure of the Can Annual Statement and explain the purpose of its statements, key exhibits and schedules.		
C.	Describe how to compute the taxable income of a life insurance company		
D.	Explain fair value accounting principles		
E.	E. Describe international accounting standards		
F.	Devise and use Methods for reviewing Reserves		
Syll	labus Resources		
•	Valuation of Life Insurance Liabilities, Lombardi, Fourth Edition, 2006		
•	Chapter 1, Overview of Valuation Requirements <i>Canadian Insurance Taxation</i> , Third Edition, 2009, by PriceWaterhouseCoopers (Background reading 1,2,7- 10,26) Chapter 3 Liability for Income Tax, Chapter 4, Income for Tax Purposes – General Rules, Chapter 5, Investment Income, Chapter 6, Reserves, Chapter 11, Investment Income Tax, Chapter 27 Provincial Premium		
•	Taxes ILA-C100-07: – Financial Reporting Developments Accounting for Derivative Instruments and Hedging Activities: A Comprehensive Analysis of FAS 133 (Overview and Appendix C)		
•	ILA-C102-09: Actuarial Review of Reserves and other Annual Statement Liabilities		
•	ILA-C122-09: PWC IFRS Insurance Alert: Phase II Discussion Paper, May 2007		
•	ILA-C123-09:IASB Phase II Preliminary View Discussion paper, Ch. 3		
•	ILA-C623-09: Proceedings: Lesson Learned: Implications of CICA 3855, PD-30, June 2007		
•	ILA-C625-10: Market Value Margins for Insurance Liabilities in Financial Reporting and Solvency Applications, E&Y October 2007 through page 65		
•	An Approach to Fair Valuation of Insurance Liabilities Using the Firm's Cost of Capital", NAAJ, Apr 2002, p. 18-23		
	http://www.soa.org/library/journals/north-american-actuarial-journal/2002/april/naaj0204_3.pdf		
•	Fair Value of Liabilities: The Financial economic Perspective, NAAJ Jan 2002 http://www.soa.org/library/journals/north-american-actuarial-journal/2002/january/naaj0201_2.pdf		
•	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		
•	Educational Note: Implications of CICA Accounting Standard 3855 and 1530 – Jan 2007		
	http://www.actuaries.ca/members/publications/2007/207002e.pdf		
•	Educational Note: Implications of CICA Handbook Section 3855 – Financial Instruments on Future Income and Alternative Taxes: Update to Fall Letter: April 2007		
•	http://www.actuaries.ca/members/publications/2007/207029e.pdf Educational Note: Classification of Contracts under International Financial Reporting Standards		
-	http://www.actuaries.ca/members/publications/2009/209066e.pdf		

- Research Paper: Changes in Accounting Policies under International Financial Reporting Standards
   <u>http://www.actuaries.ca/members/publications/2009/209061e.pdf</u>
- Draft Research Paper: Disclosure of Information about Insurance Contracts under International Financial Reporting Standards

http://www.actuaries.ca/members/publications/2009/209065e.pdf

Exa	Exam: ILA – CSP TOPIC: Principles of Valuation			
Lea	Learning Objectives			
2.				
	rning Outcomes			
The	candidate will be able to:			
А.	i) Describe Valuation Methods			
	ii) Select appropriate valuation assumptions.			
B.	<ul> <li>Compute liabilities for the following products:</li> <li>i) Traditional life insurance</li> <li>ii) Term life insurance</li> <li>iii) Universal life insurance</li> <li>iv) Deferred annuity</li> <li>v) Payout annuity</li> <li>vi) Segregated Funds with guaranteed minimum deat</li> <li>vii) Segregated Funds with guaranteed living benefits</li> <li>viii) Riders</li> </ul>			
C.	Devise and use reserve audit methods			
Syl	labus Resources			
•	Valuation of Life Insurance Liabilities, Lombardi, Fou Chapter 1 Overview of Valuation Requirements			
•	CIA Consolidated Standards of Practice – Section 210			
	http://www.actuaries.ca/members/publications/2009/S			
•	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			
•	<ul> <li>CIA: Valuation of Segregated Fund Investment Guarantees (December 2003 and October 2005) <u>http://www.actuaries.ca/members/publications/2005/205111e.pdf</u> <u>http://www.actuaries.ca/members/publications/2003/203107e.pdf</u></li> </ul>			
•	CIA Educational Note: Approximations to the Canadi			
	http://www.actuaries.ca/members/publications/2006/2			
•	<ul> <li>CIA Educational Note: Expected Mortality: Fully Underwritten Canadian Individual Life Insurance Policies: July 2002 http://www.actuaries.ca/members/publications/2002/202037e.pdf</li> </ul>			
•	CIA Report: Use of Stochastic Techniques to Value L http://www.actuaries.ca/members/publications/2001/2	iabilities under Canadian GAAP: August 2001		
•	CIA Task Force on Segregated Fund Investment Guar			
	http://info.worldbank.org/etools/docs/library/83954/ci			
•	CIA: DCAT Education Note: November 2007			
	http://www.actuaries.ca/members/publications/2007/2			
•	CIA Draft Educational Note: Valuation of Universal I			
•	<ul> <li><u>http://www.actuaries.ca/members/publications/2006/206148e.pdf</u></li> <li>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></li> </ul>			

- CIA Educational Note: Considerations in Valuation of Seg Fund Products November 2007 <u>http://www.actuaries.ca/members/publications/2007/207109e.pdf</u>
- Fair Value Accounting: Trouble-maker or Life-saver?, *Financial Reporter*, April 2009, Rubin, et. al <u>http://www.soa.org/library/newsletters/financial-reporter/2009/april/frn-2009-iss76.pdf</u>
- An Approach for Measurement of the Fair Value of Insurance Contracts, Gutterman, et al., *Actuarial Practice Forum*, May 2007 <u>http://www.soa.org/library/journals/actuarial-practice-forum/2007/may/APF0705\_04.pdf</u>

Ex	xam: ILA - CSP TO	OPIC: <b>Reinsurance</b>	
Lea	earning Objectives		
3.	The candidate will be able to evaluate various forms of form, and describe the circumstances that would make		
Lea	earning Outcomes		
	<ul> <li>he candidate will be able to:</li> <li>For traditional and financial reinsurance, explain the consectassuming companies with respect to: <ul> <li>i) risk transfer</li> <li>ii) cash flow,</li> <li>iii) financial statements</li> <li>iv) tax, and</li> <li>v) reserve credit requirements</li> </ul> </li> <li>Describe what considerations would be examined to detern and assuming company perspectives</li> </ul>		
Syl	yllabus Resources		
•	Life and Health and Annuity Reinsurance, Tiller & Tiller, Third Edition, 2005 Chapter 4: Basic Methods of Reinsurance		
	Chapter 5: Advanced Methods of Reinsurance Chapter 6: The Reinsurance Treaty		
•	Canadian Insurance Taxation, Third Edition, 2009, by F Chapter 30: Reinsurance	PriceWaterhouseCoopers	
•	ILA-C624-10:Discussion Paper on OSFI's Regulatory and Supervisory Approach to Reinsurance		
•	CIA, March 2009 http://www.actuaries.ca/members/publications/2009/209023e.pdf		

Exa	Exam: ILA - CSP TOPIC: Financial and Capital Management		
Lea	rning Objectives		
4.	4. The candidate will be able to explain and apply the basic methods, approaches and tools of financial management and embedded value creation in a life insurance company context.		
Lea	rning Outcomes		
	candidate will be able to: Describe and calculate basic performance measures		
B.	Perform basic financial analysis by product line and to	otal company	
C.	Explain and create a product line "gains by source" an	alysis	
D.	D. Apply methods of valuation to business and asset acquisitions and sales		
E.	E. Explain and apply the basic methods and approaches of surplus management and earnings management		
F.	F. Describe how securitization is used within capital management		
G.	G. Explain and apply the methods and principles of embedded value		
H.	Describe and apply the principles of how insurance coperspective	ompanies create value from a financial economics	
Syl	abus Resources		
•	Life Insurance Products and Finance, Atkinson and Dallas, 2000     Chapter 16: Financial Management		
•	ILA-C106-07: Ch. 4 (Sections 4.1-4.6) in Mergers and	d Acquisitions	
•	ILA-C107-07: Securitization of Life Insurance Assets		
•	ILA-C110-07: The Economics of Insurance: How Insurers Create Value for Shareholders		
•	ILA-C603-07: OSFI Guideline D-9: Sources of Earnings Disclosure, December 2004		
•	February 2007	Financial Instruments Designated as Fair Value Option,	
•		Market-Consistent Embedded Value (MCEV). What is the	
•	SameBre ManuBernent et Ente insurance e empany Surprus, isirinini, in (puBes ree 110)		
•	http://www.soa.org/library/research/transactions-of-so CIA: Sources of Earnings: Determination and Disclos		
•	http://www.actuaries.ca/members/publications/2004/2		
•	Embedded Value: Practice and Theory, SOA, Actuaria http://www.soa.org/library/journals/actuarial-practice-	al Practice Forum, March 2009.	

Exam: ILA - CSP	TOPIC: Financial and Capital Management	
Learning Objectives		
5. The candidate will understand the Risk Ba underlying the determination of Regulator	ased Capital (RBC) regulatory framework and the principles ry RBC and Economic Capital.	
Learning Outcomes		
The candidate will be able to: A. Describe the MCCSR/RBC regulatory frame RBC.	work and the principles underlying the determination of Regulatory	
<ul> <li>B. Compute MCCSR for a life insurance company, including:</li> <li>i) Identification of significant risk components</li> <li>ii) Identification of specialized product MCCSR requirements</li> <li>iii) Interpreting results from a regulatory perspective</li> <li>C. Explain and apply the concepts, approaches and method for determining Economic Capital</li> </ul>		
Syllabus Resources		
• Valuation of Life Insurance Liabilities, Lomb Chapter 1 Overview of Valuation Requi Chapter 16 Risk-Based Capital		
<ul> <li>ILA-C108-07, The Theory of Risk Capital in Financial Firms</li> <li>ILA-C121-08: Economic Capital Modeling: Practical Considerations, Milliman</li> <li>ILA-C606-10:OSFI: Guideline Minimum Continuing Capital and Surplus Requirements for Life Insurance Companies Chapters 1-5 and 8</li> <li>ILA-C609-07: CIA: OSFI Submission: Future Direction of Insurance Capital Rules: March 2005</li> <li>ILA-C627-10: PD #9 Economic Capital Models, June 2008</li> <li>ILA-C628-10:OSFI: Framework for New Standard Approach to Setting Capital Requirements November 200</li> </ul>		
<ul> <li>Economic Capital for Life Insurance Compan <u>http://www.soa.org/files/pdf/research-ec-repo</u></li> <li>Economic Capital: The Controversy at the Water Control of the Control</li></ul>	<u>rt.pdf</u>	

2006<u>http://www.soa.org/library/newsletters/risk-management-newsletter/2006/december/RMN0612.pdf</u>

Image: Second S	Exam: ILA - CSP	TOPIC: Model Office and Asset/Liability Modeling		
Learning Outcomes         The candidate will be able to:         A. For an ALM model:         i) Select appropriate assumptions and scenarios         iii) Model dynamic behavior of both assets and liabilities         iii) Model and explain various strategies, including hedging         iv) Analyze and evaluate results         v) Recommend appropriate strategies         B. Apply a model office process and make appropriate recommendations.         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         Syllabus Resources         • Life Insurance Products and Finance, by Atkinson and Dallas, 2000         Chapter 14: Financial Modeling         Chapter 15: Stochastic Modeling, pp. 785-831, 856-858         • Valuation of Life Insurance Liabilities, Lombardi, 4 <sup>th</sup> Edition, 2006         Chapter 13: Cash Flow Testing         • ILA-C112-07: ALM for Insurers         • ILA-C113-07: Chapter 22 of Life Insurance Accounting, Asset/Liability Management	Learning Objectives			
<ul> <li>The candidate will be able to:</li> <li>A. For an ALM model: <ol> <li>Select appropriate assumptions and scenarios</li> <li>Model dynamic behavior of both assets and liabilities</li> <li>Model dynamic behavior of both assets and liabilities</li> <li>Model and explain various strategies, including hedging</li> <li>Analyze and evaluate results</li> <li>Recommend appropriate strategies</li> </ol> </li> <li>B. Apply a model office process and make appropriate recommendations.</li> <li>C. Analyze and explain actual vs. projected differences</li> <li>D. Explain limitations of models and possible sources of error <ol> <li>Quality of data</li> <li>Granularity of the model</li> </ol> </li> <li>Syllabus Resources</li> <li>Life Insurance Products and Finance, by Atkinson and Dallas, 2000 <ul> <li>Chapter 14: Financial Modeling</li> <li>Chapter 15: Stochastic Modeling, pp. 785-831, 856-858</li> </ul> </li> <li>Valuation of Life Insurance Liabilities, Lombardi, 4<sup>th</sup> Edition, 2006 <ul> <li>Chapter 13: Cash Flow Testing</li> <li>ILA-C112-07: ALM for Insurers</li> <li>ILA-C113-07: Chapter 22 of Life Insurance Accounting, Asset/Liability Management</li> </ul> </li> </ul>	6. The candidate will be able to integrate data from va	rious sources into model office and asset/liability models		
<ul> <li>A. For an ALM model: <ol> <li>Select appropriate assumptions and scenarios</li> <li>Model dynamic behavior of both assets and liabilities</li> <li>Model and explain various strategies, including hedging</li> <li>Analyze and evaluate results</li> <li>Recommend appropriate strategies</li> </ol> </li> <li>B. Apply a model office process and make appropriate recommendations.</li> <li>C. Analyze and explain actual vs. projected differences</li> <li>D. Explain limitations of models and possible sources of error <ol> <li>Quality of data</li> <li>Granularity of the model</li> </ol> </li> <li>Syllabus Resources</li> <li>Life Insurance Products and Finance, by Atkinson and Dallas, 2000 <ul> <li>Chapter 14: Financial Modeling</li> <li>Chapter 15: Stochastic Modeling, pp. 785-831, 856-858</li> </ul> </li> <li>Valuation of Life Insurance Liabilities, Lombardi, 4<sup>th</sup> Edition, 2006 <ul> <li>Chapter 13: Cash Flow Testing</li> </ul> </li> <li>ILA-C112-07: ALM for Insurers</li> <li>ILA-C113-07: Chapter 22 of Life Insurance Accounting, Asset/Liability Management</li> </ul>				
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<ul> <li>C. Analyze and explain actual vs. projected differences</li> <li>D. Explain limitations of models and possible sources of error <ol> <li>Quality of data</li> <li>Granularity of the model</li> </ol> </li> <li>Syllabus Resources <ul> <li>Life Insurance Products and Finance, by Atkinson and Dallas, 2000 Chapter 14: Financial Modeling Chapter 15: Stochastic Modeling, pp. 785-831, 856-858</li> <li>Valuation of Life Insurance Liabilities, Lombardi, 4<sup>th</sup> Edition, 2006 Chapter 13: Cash Flow Testing</li> <li>ILA-C112-07: ALM for Insurers</li> <li>ILA-C113-07: Chapter 22 of Life Insurance Accounting, Asset/Liability Management</li> </ul> </li> </ul>				
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<ul> <li>Chapter 13: Cash Flow Testing</li> <li>ILA-C112-07: ALM for Insurers</li> <li>ILA-C113-07: Chapter 22 of <i>Life Insurance Accounting</i>, Asset/Liability Management</li> </ul>				
• ILA-C113-07: Chapter 22 of Life Insurance Accounting, Asset/Liability Management				
ILA-C114-07: Life Insurance Forecasting and Liability Models .exclude appendices				
	• ILA-C114-07: Life Insurance Forecasting and Liabil	ty Models .exclude appendices		

Exa	Exam: ILA - CSP TOPIC: Risk Management And Mitigation		
Lea	earning Objectives		
	7. The candidate will understand the sources of risk faced by the enterprise and evaluate the mitigation thereof.		
Lea	earning Outcomes		
	he candidate will be able to: Identify, categorize and evaluate potential sources of risk morbidity and lapse.	in products including but not limited to mortality,	
B.	Identify, categorize and evaluate potential sources of risk liquidity and asset-liability matching.	in investments including but not limited to credit risk,	
C.	C. Describe and evaluate the other risks an insurance company faces including operational, marketplace and expense risks.		
D.	<ol> <li>Describe how risks (e.g. product, investments and operational) and opportunities interact and how they influence firm strategy.</li> </ol>		
E.	. Describe and apply methods of risk mitigation and hedging and to understand the limitations of such methods.		
F.	F. Evaluate methods for measuring and controlling equity-based exposure associated with embedded options .		
G.	G. Describe the roles of rating agencies, analysts and regulators together with their methods and impact on insurance companies.		
Syl	llabus Resources		
•	ILA-C116-07:Mapping of Life Insurance Risks, AAA Rep		
•	ILA-C118-07: Regulators' Perspective on Actuarial Opinions and Valuations		
•	ILA-C124-10: Insurance Criteria: Refining the Focus of Insurer Enterprise Risk Management Criteria exclude pp. 20-26 (property/Casualty (Nonlife) Insurance Risk		
•	ILA-C125-10: Insurance Risk Management Response to the Financial Crisis, <i>CRO Forum</i> , April 2009		
•	Specialty Guide on ERM (link), Chapters 1-6		
	http://www.soa.org/library/professional-actuarial-specialty-guides/enterprise-risk-		
•	management/2005/august/spg0605erm.pdf Stochastic Analysis of Long Term Multiple-Decrement Co	ontracts Clark and Runchey Jan 2008 – Exclude	
-	Appendices	Shawes, churk and real-oney, sun 2000 Exclude	
	http://www.soa.org/files/pdf/research-stochastic.pdf		

Exa	Exam: ILA - CSP TOPIC: Professional Considerations		
Lea	Learning Objectives		
8. 7	The candidate will understand the professional stan	dards addressing financial reporting and valuation.	
Lea	urning Outcomes		
The	e candidate will be able to:		
A.	Explain the role and responsibilities of the appointed	/ valuation actuary.	
B.	B. Identify and apply relevant professional actuarial qualification standards.		
C.	C. Identify and apply actuarial standards of practice relevant 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 Accident and Health Insurance Accounting</i> , "Management Reports and Reports to Regulatory Bodies"		
•			
•	ILA-C612-07:Guideline AuG-43: Audit of Actuarial	Liabilities of Insurance Enterprises	
•	ILA-613-07: Proceedings: PS#12: Role of the Appointed Actuary: AA seminar 2005		
•	ILA-C620-09: OSFI: Guideline E15: Sound Business and Financial Practices: Appointed Actuary: Legal		
	Requirements, Qualification and External Review: November 2006		
•	ILA-C622-09: CIA: Consolidated Standards of Practi	ice: (Section 2400)	
•	• Actuarial Aspects of SOX 404, 12/04 Financial Reporter #59		
	http://www.soa.org/library/newsletters/financial-reporter/2004/december/frn0412.pdf		
•			
	Actuarial Standards of Practice, 12/04 Financial Repo		
	http://www.soa.org/library/newsletters/financial-repo	rter/2004/december/frn0412.pdf	
•	Regulatory Capital Filing Certification (May 2006)		
	http://www.actuaries.ca/members/publications/2006/2	<u>206049e.pdf</u>	