#### Important Exam Information:

Exam Registration	Candidates may register online or with an application.
<u>Order Study Notes</u>	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	There is no case study for this examination.
Past Exams	Past Exams from 2000-present are available on SOA website.
<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 - LFV TOPIC: <u>Financial Reporting</u>		
Lea	Learning Objectives		
1.	1. The candidate will understand financial statements and reports of Canadian life insurance companies and be able to analyze the data in them.		
Lea	urning Outcomes		
The	The candidate will be able to:		
A.	A. Construct the basic financial statement or its components for a life insurance company.		
B.	B. Describe the structure of the Canadian 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.	Describe, use and recommend methods for performin	g actuarial reviews of reserves	
Syl	labus Resources		
•	• <i>Canadian Insurance Taxation</i> , Borgmann et. al., 3 <sup>rd</sup> Edition, Ch. 1-11, 26, 27. Note: Chapters 1, 2, 7 – 10, and 26 are for background reading only.		
•	Valuation of Life Insurance Liabilities, Lombardi,4th	Edition, Ch. 1	
•	LFV-102-09: Actuarial Review of Reserves and Other	er Annual Statement Liabilities	
•	• LFV-618-13: OSFI Guideline D-10: Accounting for Financial Instruments Designated as Fair Value Option		
•	• <u>CIA Educational Note: Valuation of Gross Policy Liabilities and Reinsurance Recoverables</u> , December 2010		
•	<u>CIA Educational Note: CALM Implication of AcSB Section 3855 Financial Instruments – Recognition and</u> <u>Measurement (June, 2006)</u>		
•	<u>CIA Educational Note on IFRS: Classification of Contracts under IFRS (IASP 3)</u>		
•	• <u>CIA Educational Note on IFRS: Measurement of Investment Contracts and Service Contracts under IFRS</u> (IASP 4)		
•	• <u>CIA Research Paper on IFRS: Embedded Derivatives and Derivatives under IFRS (IASP 10)</u>		
•	• CIA Research Paper, IFRS Disclosure Requirements for Life Insurers (December, 2010)		
•	Future Income and Alternative Taxes, CIA Education	nal Note, December 2012	

Exa	xam: ILA – LFV TOPI	C: Principles of Valuation	
Lea	earning Objectives		
2. The candidate will be able to understand and apply valuation principles of individual life insurance and annuity products issued by Canadian life insurance companies.			
Lea	earning Outcomes		
Th	he candidate will be able to:		
A.	. Describe valuation methods		
B.	. Recommend appropriate valuation assumptions.		
C.	Calculate liabilities for life and annuity products and their asso	ciated riders.	
Syl	yllabus Resources		
•	Valuation of Life Insurance Liabilities, Lombardi, 4th Edition	, Ch. 1	
• LFV-634-15: CIA Standards of Practice: Practice-Specific Standards for Insurers (Sections 2100, 2300, 2500) (January 1, 2014)			
•	LFV-637-13: OSFI Letter Evidence for Mean Reversion in E	quity Prices	
•	CIA Educational Note: Best Estimates Assumptions for Expe	enses – November 2006	
•	CIA Educational Note: Margins for Adverse Deviations (Mf	AD) – November 2006	
• CIA: Valuation of Segregated Fund Investment Guarantees ( <u>December 2003</u> and <u>October 2005</u> )			
•	<u>CIA Educational Note: Approximations to the Canadian Asset Liability Method</u> (CALM): November 2006		
<u>CIA Educational Note: Expected Mortality: Fully Underwritten Canadian Individual Life Insurance Policies:</u> July 2002 (excl. appendices)			
•	Report of the Task Force on Segregated Fund Liability and C	apital Methodologies (August 2010)	
•	CIA Educational Note: Reflection of Hedging in Segregated	Fund Valuation (May 2012)	
<u>CIA Educational Note: Future Income and Alternative Taxes</u> excluding Appendix D (December 2012)			
• <u>Final Communication of a Promulgation of Prescribed Mortality Improvement Rates Referenced in the</u> <u>Standards of Practice for the Valuation of Insurance Contract Liabilities: Life and Health (Accident and</u> Sickness) Insurance, (Subsection 2350)			
•	CIA Research Paper: Mortality Improvement Research Paper	(September 2010)	
•	CIA Educational Note: Valuation of Universal Life Policy Li	abilities, February, 2012	
• <u>CIA Use of Actuarial Judgment in Setting Assumptions and Margins for Adverse Deviations</u> , November 2006			
<u>CIA Educational Note: Considerations in Valuation of Seg Fund Products</u> – November 2007			
•	CIA Educational Note, Currency Risk in the Valuation of Po	licy Liabilities for Life & Hlth Insurers, Dec 2009	
•	CIA Educational Note, Aggregation and Allocation of Policy	Liabilities, September 2003	
•	CIA Education Note, Investment Returns for Non-fixed Inco	me Returns for Assets, March 2011	

- <u>Revision to Standards of Practice for Promulgations of the Maximum Net Credit Spread, Ultimate Reinvestment</u> <u>Rates, and Calibration Criteria for Stochastic Risk-Free Interest Rates, May 2014</u>
- Memorandum of the Final Standards Revisions to Economic Reinvestment Assumptions, May 2014
- Final Communication of Promulgations of the Maximum Net Credit Spread, Ultimate Reinvestment Rates and Calibration Criteria for Stochastic Risk-Free Interest Rates in the Standards of Practice, May 2014

Exam: ILA - LFV	TOPIC: Emerging Standards
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Learning Objectives

**3.** The candidate will be able to understand and analyze the implications of emerging financial and valuation standards.

Learning Outcomes

The candidate will be able to:

A. Describe emerging developments impacting Canadian valuation and International Financial Reporting frameworks, and assess their impact on the valuation of reserves and financial statements

Syllabus Resources

- LFV-127-15: IASB Staff Paper, Effect of Board Deliberations on the 2013 Exposure Draft Insurance Contracts, July 2014
- LFV-132-14: Practical Guide to IFRS, PwC, (July 2013)
- LFV-609-07: Canadian Institute of Actuaries OSFI Submission: Future Direction of Insurance Capital Rules, March 2005
- LFV-631-11: Key Principles for the Future Direction of the Canadian Regulatory Capital Framework on Insurance
- LFV-640-14: OSFI: Life Insurance Regulatory Framework (September 2012)
- LFV-641-15: OSFI: Own Risk and Solvency Assessment (E-19) (January 2014)

Exa	Exam: ILA – LFV TOPIC: <b>E</b>	inancial and Capital Management
Lea	earning Objectives	
4. The candidate will be able to explain and apply the methods, approaches and tools of financial management and value creation in a life insurance company context.		
Lea	earning Outcomes	
The	The candidate will be able to:	
A.	A. Describe and calculate performance measures.	
B.	B. Perform financial analysis by product line and total company.	
C. Explain and create a product line "gains by source" analysis.		
D.	D. Apply methods of valuation to business and asset acquisitions and sales. This includes explaining and applying the methods and principles of embedded value.	
E.	E. Explain and apply the methods and approaches of surplus management and earnings management.	
F.	<ol> <li>Describe and apply the principles of how insurance companies cr perspective.</li> </ol>	eate value from a financial economics
Syl	yllabus Resources	
•	LFV-106-07: Chapter 4 of Insurance Industry Mergers & Acquise	itions (Sections 4.1-4.6)
•	LFV-128-13: Life Insurance Products and Finance, Atkinson and Dallas, Ch. 16	
•	LFV-603-13: OSFI Guideline D-9 -Source of Earning Disclosure	(Life Insurance Companies)
•	LFV-626-10: Session PD-28: Embedded Value (EV) and Market is the Difference?	-Consistent Embedded Value (MCEV). What
•	Strategic Management of Life Insurance Company Surplus, TSA	XXXVIII (pages 105-116)
•	CIA: Sources of Earnings: Determination and Disclosure, August	2004

• <u>Embedded Value: Practice and Theory</u>, SOA, Actuarial Practice Forum, March 2009.

	TLA - LFV   TOPIC: Financial and Capital Management
Learnii	g Objectives
	andidate will understand the Risk Based Capital (RBC) regulatory framework and the principles ing the determination of Regulatory RBC and Economic Capital.
Learnii	g Outcomes
The car	didate will be able to:
	cribe the MCCSR/RBC regulatory framework and the principles underlying the determination of ulatory RBC.
i) ii)	npute MCCSR for a life insurance company, including: Identification of significant risk components Identification of specialized product MCCSR requirements Interpreting results from a regulatory perspective
C. Ex	lain and apply the concepts, approaches and method for determining Economic Capital
i) ii)	lain and apply the concepts, approaches and method for determining Economic Capital Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program
i) ii) iii)	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives
i) ii) iii)	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program
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i) ii) iii) Syllabu •	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program
i) ii) iii) Syllabu •	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program Resources Valuation of Liabilities, Lombardi, 4 <sup>th</sup> Edition, Ch. 16 (excl. 16.6) LFV-121-08: Economic Capital Modeling: Practical Considerations (pp.4-34 only)
i) ii) iii) Syllabu •	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program Resources Valuation of Liabilities, Lombardi, 4 <sup>th</sup> Edition, Ch. 16 (excl. 16.6) LFV-121-08: Economic Capital Modeling: Practical Considerations (pp.4-34 only) LFV-131-14: Economic Capital Overview: Chad Runchey, August 2012 LFV-606-15: OSFI Guideline – Minimum Continuing Capital and Surplus Requirements (MCCSR) For
i) ii) iii) Syllabu •	Identification of the significant risk components Selecting calculation methods appropriate to stakeholder's perspectives Describing how a company would implement an Economic Capital Program
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Exam: ILA – LFV TOPIC: <u>Reinsurance</u>		
Learning Objectives		
6. The candidate will be able to evaluate various forms of reinsurance, the financial impact of each form, and the circumstances that would make each type of reinsurance appropriate.		
Learning Outcomes		
The candidate will be able	e to:	
A. Describe the consider company perspectives	11 1	ate reinsurance form from the ceding and assuming
<ul> <li>B. Explain the consequences and calculate the effect on both ceding and assuming companies with respect to:</li> <li>i) risk transfer</li> <li>ii) cash flow,</li> <li>iii) financial statements</li> <li>iv) reserve credit requirements</li> <li>v) tax</li> </ul>		
Syllabus Resources		
• Life, Health & Annuit	y Reinsurance, Tiller, 3rd Editior	n, Ch. 4-6
	Guideline Minimum Continuing ( 0 only (January 1, 2014)	Capital and Surplus Requirements for Life Insurance
LFV-632-12: OSFI Guideline B-3: Sound Reinsurance Practices and Procedures		
• <u>Report of the CIA Ta</u>	sk Force on the Appropriate Trea	atment of Reinsurance, Oct 2007
• <u>Accounting for Reinsurance Contracts under International Financial Reporting Standards (IASP 9)</u> , (exclude Appendices C and D)		

Exam: ILA - LFV	TOPIC: Professional Considerations
Learning Objectives	
7. The candidate will understand the profes	ssional standards addressing financial reporting and valuation.
Learning Outcomes	
The candidate will be able to:	
A. Explain the role and responsibilities of the	e appointed / valuation actuary.
B. Identify and apply relevant professional a	actuarial qualification standards.
C. Identify and apply actuarial standards of I	practice relevant to financial reporting and valuation.
D. Explain the actuary's professional respon	sibilities to stakeholders including obligations under Sarbanes-Oxley
Syllabus Resources	
• LFV-620-14: OSFI Guideline E15: Appo Review (September 2012)	inted Actuary – Legal Requirements, Qualifications and External
• LFV-634-15 CIA Standards of Practice: I (January 1, 2014)	Practice-Specific Standards for Insurers (Sections 2400 & 2700)
<ul> <li>LFV-635-13: Participating Account Man Policyholders</li> </ul>	nagement and Disclosure to Participating Policyholders and Adjustable
• Actuarial Aspects of SOX 404, Financial	Reporter #59, 12/04
<u>Responsibilities of the Actuary for Comm</u> <u>Actuarial Standards of Practice</u> , Financial	nunicating Sarbanes-Oxley control: Effectiveness in Accordance with l Reporter #59, 12/04
	ness Opinions Required Under the Insurance Companies Act Pursuant
<u>to Bill C-57</u> (2005)	ness opinions required onder the instrance companies ret rurstant