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.
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	This case study will also be provided with the examination. 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.
<u>Updates</u>	Candidates should be sure to check the Updates page on the exam home page periodically for additional corrections or notices.

Exam: ILA - DP				
Learning Objectives				
1. Describe the product development process.				
Learning Outcomes				
The candidate will be able to:				
 A. Describe the steps in the iterative control cycle process within the context of product development; i) Idea Generation ii) Feasibility iii) Planning the Design iv) Actuarial Development Assumptions Profit Measures Regulatory Issues Choice of Model v) Launch and Monitor the Product B. Describe how the actuary interacts with other stakeholders within the product development process 				
Syllabus Resources				
• Atkinson & Dallas, <i>Life Insurance Products and Finance</i> , Chapters 1 and 2				
• ILA-D101-07: Product Development Trends, pp.46-61				
• ILA-D104-07: Easton and Harris Actuarial Aspects of Individual Life Insurance and Annuity Contracts, chapter				
3 The Product Development Process				
• ILA-D111-07: LOMA, Product Design for Life Insurance & Annuities, Chapter 1				
2006 Marketing and Distribution Section Product Implementation Survey, Product Matters! June	e 2007			
http://www.soa.org/library/newsletters/newsdirect/2007/june/2002007june.aspx				
Bob Shapiro 50 th Anniversary monograph " <i>The Process of Premium Formulation</i> "				
http://www.soa.org/library/research/transactions-of-society-of-actuaries/1982/january/tsa82v3418.pdf				

Exa	am: ILA - DP				
Lea	Learning Objectives				
2.	2. Understand the drivers of product design (the idea generation step).				
Lea	arning Outcomes				
For	For a given context or product, the candidate will be able to:				
Α.	Identify customers and their needs – internal and/or external				
В.	Analyze how the following drive product design				
	Company strengths and weaknesses				
	Economic forces				
	Marketplace demographics				
	Consumer behavior				
	Distribution channel behavior				
	• Competition				
C.	Describe the questions to ask the sales and marketing (incl. Agents, brokers and direct marketing)				
Syl	Syllabus Resources				
•	Marketing for Actuaries, 2000 Edition, All Chapters				
•	LOMA, <i>Insurance Marketing</i> , 2010, Ch. 2-5 and 7-8				
•	ILA-D111-07: Product Design for Life Insurance and Annuities, Ch. 1				

Exam: I	LA – DP			
Learning Objectives				
3. Und	3. Understand the feasibility step of new product and how it drives design.			
	g Outcomes			
For a giv	ven context or product, the candidate will be able to):		
А.	Explain considerations for prudent and practical d	lecision making		
B.		ce products and features within those products as well as		
C.	Describe tax regulation and perform calculations	to evaluate compliance		
D.	Describe non-forfeiture regulation and perform ca	lculations to evaluate compliance		
E.	Describe how investment policy and capital requi	rements can impact design		
F. G.	Identify gaps between the product design and the Recommend ways to close the gaps between design	operations of the company and procedures and systems ign and the internal/external constraints.		
Syllabus	s Resources			
Atkin	nson & Dallas, Life Insurance. Products and Finan	nce, Chapter 2-3		
 Marino and Grobe, <i>Canadian Taxation of Life Insurance</i>, 5th Edition, Chapters 1, 3, 14, 15, and 19 				
 ILA-D609-08: Notes on the Taxation of Life Insurance policies and Annuity Contracts, Witol with preamble by Ron Sanderson of CLHIA, ILA-D614-09: Guideline G6 –Illustrations, CLHIA 				
• Hidd	den Costs of Administering Complex Products, Pro ://www.soa.org/library/newsletters/product-develog den Costs of Product Complexity, Product Matters, ://www.soa.org/library/newsletters/product-develog	pment-news/2003/november/pdn0311.pdf November 2003		

Exa	Exam: ILA – DP		
Learning Objectives			
4. Understand the design and purpose of various product types, benefits and features.			
	arning Outcomes		
The	e candidate will be able to:		
	A. Describe in detail product types, benefits and features		
	Assess and construct designs to meet market needs		
C.	Demonstrate how recommended designs are consistent with the idea and feasibility steps		
Syl	labus Resources		
•	Atkinson & Dallas, Life Insurance Products and Finance, Chapter 13		
•	Marino and Grobe, Canadian Taxation of Life Insurance, 5th edition, Chapters 2, 4 and 9		
•	Hardy, Investment Guarantees, Hardy, Chapter 1		
•	ILA-D102-07 Equity Indexed Annuities: Product Design and Pricing Consideration		
•	ILA-D105-07: Life and Annuity Products and Features		
•	ILA-D116-10: Variable Annuities, Kalberer and Ravindran, Chapters 5,9,10,11		
• ILA-D601-08: CIA Report – Lapse Experience under Universal Life Level Cost of Insurance Policies, October 2007			
•	ILA-D600-07: CIA Report – Lapse Experience Under Lapse Supported Policies (October 1999)		
•	ILA-D608-08: CIA Report - Lapse Experience under Term-to-100 Insurance Policies, October 2007		
•	ILA-D610-08: Pricing Critical Illness Insurance in Canada, Mooney		
•	ILA-D611-08: Product Design of Critical Illness Insurance in Canada		
•	EIUL: The Devil's in the Details, Product Matters, August (62)2005,		
	http://www.soa.org/library/newsletters/product-development-news/2005/august/pdn0508.pdf		
• Inflation-Indexed Income Annuities: Pricing Considerations and Investment Strategies, Simpa Baiye, Product			
	Matters, September, 2006 http://www.soa.org/library/newsletters/product-development-news/2006/September/PDN0609.pdf		
•	What's Backing Your Life Insurance Guarantee?, The Actuary, February 2005		
	http://www.soa.org/library/newsletters/the-actuary-magazine/2005/february/wha2005february.aspx		
•	VUL Secondary Guar: Catalyst for Sales Rebound, Product Matters, July (56)2003,		
	http://www.soa.org/library/newsletters/product-development-news/2003/july/pdn0307.pdf		
•	Return of Premium Term, Product Matters July 2004		
	http://www.soa.org/library/newsletters/product-development-news/2004/july/pdn0407.pdf		
•	Term Mortality and Lapses, Product Matters, August (62) 2005,		
	http://www.soa.org/library/newsletters/product-development-news/2005/august/pdn0508.pdf		
•	Designing & Pricing LTCI Combination Insurance Products		
	http://www.soa.org/library/newsletters/long-term-care/2004/december/ltc0412.pdf		
•	Combination Annuities – A Market to Get Into?, <i>Small talk Newsletter</i> , June 2009 http://www.actstrat.com/SmallTalkArticle.htm		
•	Annuity/LTCI Combinations, <i>Product Matters</i> , October, 2009 <u>http://www.soa.org/library/newsletters/product-</u>		
•	development-news/2009/october/pro-2009-iss75.pdf		

Exa	am: ILA - DP		
	arning Objectives		
5.			
Lea	arning Outcomes		
	e candidate will be able to:		
B. C.	Identify and explain the setting of an appropriate assumption for product characteristics such as the following: Riders Policyholder Dividends Equity linked Equity linked Embedded Options Embedded Options Secondary Guarantees Payout Annuity Benefits Payout Annuity Benefits Crediting methodology Other non-guaranteed elements Identify and explain the setting of an appropriate assumption for factors such as: Available experience data The Marketplace Onderwriting Obstribution channel characteristics Expenses (fixed, variable, marginal) Taxes (income and premium) Investment strategy, e.g. hedging Analyze results and recommend appropriate action from an array of profit measures such as: Statutory, GAAP, Return on Equity, Market Consistent Pricing, Embedded Value Analyze the capital requirements for a product and describe solutions such as securitization 		
	results		
Syl	llabus Resources		
•	Atkinson & Dallas, <i>Life Insurance Products and Finance</i> , Chapters, 3, 4, 5, 7, 9, 10, 11, 13, 14 Hardy, <i>Investment Guarantees</i> , Chapters 1 (p.14 only), 2, 6, 8 (pp. 133-143 only), 9, 12, 13		
•	ILA-D102-07: Equity Indexed Annuities: Product Design and Pricing Consideration ILA-D103-07: Price WaterHouse Coopers, Innovative Financing: Life Insurance Securitization, January 2006		
•	ILA-D106-07: Gross Premiums for Disability Waiver Benefits		
•	ILA-D107-07: Experience Assumptions for Individual Life Insurance and Annuities		
•	ILA-D109-09: Moody's Investors Service Corporate Default and Recovery Rates		
•	ILA-D110-07: Policyholder Dividends		
•	ILA-D113-09: Swiss Re, Economics of Insurance: How Insurers Create Value for Shareholders		
•	ILA-D114-09: CIA Research Paper, Life Insurance Costing and Risk Analysis, June 2008 ILA-D115-09: IAA Measurement of Liabilities for Life Insurance Contracts: Current Estimates and Risk Margins April 15, 2009 ,Chapter 6 and Appendices C and D ILA-D615-10: PD-15 Combo Product		

- ILA- D615-10: PD-15 Combo Product
- ILA- D616-10: PD-19 Life Hot Topics
- ILA- D617-10: PD-29 Individual Product Structures: Product Development & Innovation for the Nov 8 meeting

- ASOP #1 Nonguaranteed Charges or Benefits for Life Insurance Policies and Annuity Contracts http://www.actuarialstandardsboard.org/pdf/asops/asop001_092.pdf
- Ending the Mortality Table (Living to 100 Symposium) <u>http://www.soa.org/library/monographs/retirement-systems/living-to-100-and-beyond/2005/january/m-li05-1-ix.pdf</u>
- The Response of Life Insurance Pricing to Life Settlements, Product Matters!, September 2006
 http://www.soa.org/library/newsletters/product-development-news/2006/september/PDN0609.pdf
- Mortality Table Slope the Discussion Goes On, Product Matters July 2004 http://www.soa.org/library/newsletters/product-development-news/2004/july/pdn0407.pdf
- Does Preferred Wear Off? Product Matters, July 2004 http://www.soa.org/library/newsletters/product-development-news/2004/july/pdn0407.pdf
- Product Development Challenges in a Principles-Based World, Product Matters!, October 2007 <u>http://www.soa.org/library/newsletters/product-development-news/2007/october/pm-0710.pdf</u>
- Across America, Valuation Actuaries Are Being Warmly Welcomed to Product Development Project Teams, Product Matters! February 2007 http://www.soa.org/library/newsletters/product-development-news/2007/February/PDN0702.pdf
- Pricing in a Return-on-Equity Environment, TSA XXXIX, 1987
 http://www.soa.org/library/newsietters/product-development-news/200//February/PDN0/02.pdf
- <u>http://www.soa.org/library/research/transactions-of-society-of-actuaries/1987/january/tsa87v3911.pdf</u>
 Risk Based Pricing Risk Management at Point of Sale "Product Matters" June 2009
- <u>http://www.soa.org/library/newsletters/product-development-news/2009/june/pro-2009-iss-74-lebel-risk.pdf</u>
 Stochastic Pricing, Session 62 TS from November 2005 SOA Annual Meeting
- Stochastic Fricing, Session 02 13 from November 2005 SOA Annual Wee <u>http://www.soa.org/files/pdf/062bk-annual05.pdf</u>
 Stochastic Pricing, RSA Vol 27, No 2, Session 86PD
- Stochastic Pricing, RSA Vol 27, No 2 Session 86PD http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2001/january/rsa01v27n286pd.pdf
- Stochastic Pricing for Embedded Options in Life Insurance and Annuity Products, Milliman http://www.soa.org/files/pdf/research-2009-stochastic-pricing.pdf

Exam: ILA - DP	TOPIC:				
Learning Objectives					
6. Understand the relationships between the product design and roll-out and between pricing assumptions and monitoring of products sold.					
Learning Outcomes					
The candidate will be able to:					
A. Describe product roll-out					
B. Describe and evaluate compliance with illustration regulation					
C. Explain how to monitor a product throughout its life-cycle.					
D. Evaluate how actual experience varies from expected relative to mortality, investment returns, expenses and policyholder behavior such as policy and premium persistency through the use of Experience Studies.					
E. Describe how to ensure the quality of data					
F. Recommend changes to non-guaranteed elements	for deviations from expected				
Syllabus Resources					
ILA-D107-07: Experience Assumptions for Individual Life Insurance and Annuities					
• ILA-D110-07: Policyholder Dividends					
• ILA-D111-07: LOMA, Product Design for Life Insurance & Annuities, Chapter 2 pages 31-33					
• ILA- D117-10: LOMA Life and Health Ins. Marketing, Third Edition, pp.242-243					
ASOP #23 Data Quality					
http://www.actuarialstandardsboard.org/pdf/asops/asop023_097.pdf					
CIA Recommendations – Dividend Determination and Illustration", June 1982					
http://www.actuaries.ca/members/publications/1982/8	<u>2076.pdf</u>				