#### **Important Information**

The Canada Segment A examination will be given on Thursday, October 30 from 8:30am to 1:15pm and will consist of four and a half hours of writtenanswer questions. A read-through time will be given prior to the start of the exam—15 minutes. Information regarding registering for exams is available on the Exam Registration page. Please note that the fall 2008 exam administration will be the last administration of Canada Segment A and B. In the fall of 2009 there will be one comprehensive 6 hour exam for Retirement Design and Pricing, Canada.

For Fall 2008, this exam includes a case study for the examination. The case study will also be distributed in the Study Note package. Candidates will not be allowed to bring their copy of the case study into the examination room.

Study notes are part of the required Course of Reading and are not available electronically. The Introductory Study Note has a complete

listing of all study notes. Candidates must order the Complete or Revision study notes from the Society of Actuaries using the Study Note Order Form. Past exams are available on the Exam Archives page of the SOA web site under <u>Multiple Choice/Essay Examinations</u>.

Candidates should be sure to check the Updates page of the web site periodically for additional corrections or notices.

The candidate should be very familiar with the Learning Objectives as described in the Basic Education Catalog. These Learning Objectives are the first ingredient in developing the syllabus and also guide the examination committee when writing questions. The Learning Objectives set out the cognitive level needed to pass this exam. You will notice that the candidates are expected to "analyze," "explain," "calculate," "describe," "apply," etc. While studying the syllabus material, candidates may want to refer back to the Learning Objectives to remain focused on the goals of the exam.

Exa	xam Re	tirement DP
Inst	nstructional Objectives	
1.	. The candidate will be able to analyze different types of regi	stered/qualified defined benefit and defined contribution plans, as well as retiree health plans.
Lea	earning Outcomes	
The	he candidate will be able to:	
a)	<ul> <li>Fixed dollar and pay-related defined benefit plans</li> </ul>	uity, and floor offset plans, flexible pension plans, target benefit plans capital accumulation plans
b)	) Describe the process and apply the principles of conversion	s from one plan type to another
c)	) Apply methods of the integration of government-provided b	penefits with retirement plan designs
d)	<ul> <li>i) Plan eligibility requirements</li> <li>ii) Benefit eligibility requirements, accrual, vesting</li> </ul>	
	iii) Benefit / contribution formula	

- Payment options and associated adjustments to the amount of benefit iv)
- Ancillary benefits v)
- vi) Benefit subsidies and their value, vested or non-vested
- vii) Participant investment options
- viii) Required and optional employee contributions
- Phased retirement and DROP plans ix)

#### Syllabus Resources

Allen et al., Retirement Plans, 401 (k)s IRAs, and Other Deferred Compensation Approaches, 10th Edition, 2008, Ch. 3, DC v DB Plans, pp 49-50 0 only, Ch. 21

- McGill et al., Fundamentals of Private pensions, 8th Edition, 2005, Ch. 11, Ch. 15 (pp 378-381 only), Ch. 19 0
- Morneau Sobeco, Handbook of Canadian Pension & Benefit Plans, 13th Edition, 2005, Chapters 1, 2 and 10 0
- Yamamoto, *Fundamentals of Retiree Group Benefits*, 2006, Ch 4 (pp 57-68 and pp 90-112 only), Ch. 5 with pp. 123-143 as background only Watson Wyatt, *Canadian Pensions and Retirement Income Planning*, 3<sup>rd</sup> edition, 2006, Ch.23 0
- 0
- R-D100-07: Multi-Employer Plans 0
- R-D101-07: Converting Pension Plans from DB to DC 0
- R-D102-07: Integration With Social Security 0
- R-D601-07: New Innovations in Canadian Pension Plan Design 0

Ex	am
Ins	tructional Objectives
2.	The candidate will be understand how the regulatory environment affects plan design and understand how to apply relevant restrictions.
Lea	arning Outcomes
Th	e candidate will be able to, for the designated region:
a)	Explain and apply the regulatory limits placed on types of plans that can be offered
b)	Explain and apply restrictions on plan design features to a proposed plan design
c)	Explain and test for limits on plan designs and features that protect participant rights
d)	Test for plan design restrictions intended to control the use of tax incentives
e)	Calculate the limitations on payout options
f)	Explain and apply rules governing the conversion from one type of plan to another
Syl	llabus Resources
	o McGill et al., Fundamentals of Private Pensions, 8 <sup>th</sup> edition, Ch. 19
	o Morneau Sobeco, Handbook of Canadian Pension & Benefit Plans, 13th edition, 2005, Chapters 2, 7 (pp. 146-160 only), 8–10
	o Turner and Watanabe, Pensions in Industrialized Countries, 1995, Ch. 4 pp. 59-63 only
	o Watson Wyatt, Canadian Pensions and Retirement Income Planning, 3rd Edition, 2006, Chapters 1, 2, 5–12, 14–18, and 21–23
	• Ontario Pension Benefits Act and R-D600-08 Regulations RRO 1990, Reg 909
	(Financial Services Commission of Ontario) • R-D606-07: OSFI Policy on Conversion – Guideline for Converting Plans from DB to DC

- R-D606-07: OSFI Policy on Conversion Guideline for Converting Plans from DB to DC
- o CSOP 3800 http://www.actuaries.ca/SOP\_Doc/3000\_Pension/SOP\_e\_Pension\_3000.pdf

Exa	am	
Inst	tructional Obj	ectives
3.	The candida	te will be able to analyze plans designed for executives or the highly paid
Lea	arning Outcor	nes
The	e candidate w	ill be able to:
a)	Given a spec	cific context, apply principles and features of executive deferred compensation retirement plans.
b)	Given a spec	cific context, apply principles and features of supplemental retirement plans
c)	Integrate a p	lan for executives with the basic benefit plan
Syllabus Resources		
	0	Allen et al., <i>Retirement Plans, 401 (k)s IRAs, and Other Deferred Compensation Approaches,</i> 10 <sup>th</sup> Edition, 2008, Ch. 14, pp. 247–260
	0	Morneau Sobeco, Handbook of Canadian Pension & Benefit Plans, 13th Edition, 2005, Ch. 9
	0	Watson Wyatt, <i>Canadian Pensions and Retirement Income Planning</i> , 3 <sup>rd</sup> Edition, 2006, Ch 14 p.266 only , Ch. 15 pp.320–322 and Ch.16 pp. 332–334
	0	R-D103-07: Should Variable Pay Count Towards Benefits Calculations
	0	R-D602-07: Funding Supplementary Pension Plans, Marcel Theroux, Canadian Tax Foundation, 1996 Annual Conference, Tab 61
	0	R-D603-07: Securing Supplemental Retirement Arrangements
	0	R-D604-07: Creative Compensation Arrangements for Private Corporations, Marcel Theroux, Canadian Tax Foundation, 1998 Ontario Conf., Tab 10
	0	R-D605-07: Tax Treatment of Share-based Compensation in the New Era

Exa	am	
Ins	truct	ional Objectives
4.	Th	e candidate will understand alternative plan types that occur internationally
Lea	arnir	g Outcomes
The	e cai	ndidate will be able to:
a)	Co	mpare different plan types and features
b)	Gi	ve examples of the structure of different plan types
c)		ve examples of plans that could work for multinational companies and their employees including third country nationals and patriates
Syl	llabu	s Resources
	0	Turner and Watanabe, Pensions in Industrialized Countries, 1995, Chapters 2 and 7
	0	R-D104-07: The Globalization of Employee Benefits
	0	R-D105-07: Labor Market Plans
	0	R-D106-07: Termination Indemnities
	0	R-D107-07: The European Pensions and Benefits Environment: A Complex Ecology
	0	R-D108-07: Pension Challenges and Pension Reforms in OECD Countries

Exa	m		
Inst	instructional Objectives		
5.	The candidate will be able to apply/synthesize the various methods used to value a pension plan or retiree health plan for the purposes of the valuation.		
Lea	rning Outcomes		
The	candidate will be able to:		
a)	Differentiate between the various purposes for valuing pension plans:         i)       Budgeting         ii)       Funding         iii)       Accounting         iv)       Solvency         v)       Termination/wind-up         vi)       Economic value		
b)	Perform periodic valuations of ongoing plans, calculating normal cost and actuarial liability, using the variety of cost methods for budgeting, funding, accounting and measuring economic value.		
c)	Analyze and communicate the pattern of cost recognition that arises under a variety of funding and asset valuation methods.		
d) e)	Perform valuations for special purposes, including: i) Plan termination/windup ii) Solvency valuations iii) Open group valuations Assess the impact of using various cost methods in a given context.		
-)			
Syll	labus Resources		
	<ul> <li>Morneau Sobeco, Handbook of Canadian Pension &amp; Benefit Plans, 13<sup>th</sup> edition, 2005, Ch. 5</li> <li>Yamamoto, Fundamentals of Retiree Group Benefits, 2006, Ch. 9 pp 287-294 only and Appendix F</li> <li>Watson Wyatt, Canadian Pensions and Retirement Income Planning,3<sup>rd</sup> Edition, 2006, Ch. 13</li> <li>R-D109-07: Financial Economics and Canadian Pension Valuation, September 2006 paper by CIA Task Force on Financial Economics</li> <li>R-D110-07: Pensions in the Public Sector,Mitchell &amp; Hustead, Ch. 3 pp 56-61 only</li> <li>Ontario Pension Benefits Act and R-D600-08 Regulations (Financial Services Commission of Ontario)- RRO 1990, Reg 909 ONLY</li> </ul>		
	<ul> <li>R-D607-07 Pension Surplus and Deficit Funding: Funding of Multi-Employer Plans</li> <li>CIA CSOP – 1000-1800, 3000-3800, 6000-6600 http://www.actuaries.ca/SOP Doc/1000 General/SOP e General_1000.pdf http://www.actuaries.ca/SOP Doc/3000 Pension/SOP e Pension_3000.pdf http://www.actuaries.ca/SOP_Doc/6000_PEBP/SOP_e_PEBP_6000.pdf</li> </ul>		



- o CIA Education Note: Guidance on Asset Valuation Methods, November 2007 http://www.actuaries.ca/members/publications/2007/207102e.pdf
- o Pension Forum 9/2002 on asset method Ch. 1,3,4,5 http://www.soa.org/library/newsletters/pension-forum/2002/september/pfn0209.pdf
- o 8/2001 Pension Forum, "Dynamic Pension Plan Valuation http://www.soa.org/library/newsletters/pension-forum/2001/august/pfn0108.pdf

#### Exam

#### Instructional Objectives

6. The candidate will be able to analyze/synthesize the factors that go into selection of actuarial assumptions.

#### Learning Outcomes

- Given a context and/or data, the candidate will be able to:
- a) Evaluate actual experience, including comparisons to assumptions
- b) Adjust current assumptions, given past experience and trends
- c) Explain the differences between setting assumptions for diversifiable versus non-diversifiable risks.
- d) Evaluate appropriateness of current assumptions given the purpose.
- e) Describe and explain the differences between a traditional and a financial economics perspective on the selection of assumptions
- f) Evaluate the appropriateness of actuarial assumptions using both a traditional and a financial economics perspective
- g) Describe and apply the building of economic assumptions
- h) Assess and explain the effect that the assumptions selected had on valuation results.
- i) Recommend appropriate assumptions for a particular type of valuation (e.g., ongoing, termination, etc.) and defend the selection.
- j) Select demographic and economics assumptions appropriate for a sensitivity analysis
- k) Select demographic and economic assumptions appropriate for a projection valuation designed for a given goal

#### Syllabus Resources

- o Yamamoto, Fundamentals of Retiree Group Benefits, 2006, Ch 9 (pp 256-278 only) and Appendix F
- o R-D109-07: Financial Economics and Canadian Pension Valuation, CIA Task Force on Financial Economics
- o R-D111-07: Creating a Corporate Bond Spot Yield Curve for Pension Discounting U.S. Treasury White Paper
- o R-D112-07: Selection of Actuarial Assumptions, pp.1-44 only
- R-D113-07: Mortality Tables for Pension Plans



0	R-D114-07: An Introduction to Duration for Pension Actuaries
0	R-D115-07: Reinventing Pension Actuarial Science with discussion
0	R-D116-07: Selection of Valuation Interest Rates for Funding Valuations of Pension Plans
0	R-D117-07: Pension Projections
0	R-D118-07: Liability Hedging and Portfolio Choice, Scherer, Chapters 1 &2
0	R-D607-07:Pension Surplus and Deficit Funding: Funding of Multi-Employer Plans
0	R-D608-07: CICA 3461 paragraphs .047 to .065 and (Q&A 36-58 for background only)
0	<i>The Actuary</i> , 1988 Differences in Actuarial Assumptions by Berin , <u>http://www.soa.org/library/newsletters/the-actuary/1988/january/act8801.pdf</u>
0	"A Practical Approach to Gains Analysis Revisited" by Andrew Smith, <i>Pension Section News</i> , Sept. 93 http://www.soa.org/library/newsletters/pension-section-news/1993/september/psn9309.pdf
0	"A Practical Approach to Gains Analysis" by Josiah Lynch – <i>TSA Vol 27</i> pp.423-439, http://www.soa.org/library/research/transactions-of-society-of-actuaries/1975/january/tsa75v2717.pdf
0	ASOP 35 Selection of Demographic and other Noneconomic Assumptions for Measuring Pension Obligations http://www.actuarialstandardsboard.org/pdf/asops/asop035_093.pdf
0	ASOP 27 Selection of Economic Assumptions for Measuring Pension Obligations http://www.actuarialstandardsboard.org/pdf/asops/asop027_053.pdf
0	"What's Wrong with ASOP 27? Bad Measures, Bad Decisions" by Bader & Gold, Jan., 2005 Pension Forum http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf
0	Jan 05 Pension Forum – entire, http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf
0	Current Trends in Demographic Assumptions – Session 63 PD, San Francisco Spring Meeting http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2002/january/rsa02v28n263pd.pdf
0	Selection of Economic Assumptions for Funding and Accounting Valuations, RSA Vol 20 #3a, 1994 http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/1990-99/1994/january/RSA94V20N3A17.PDF
0	8/2001 Pension Forum, "A Look at Dynamic Pension Plan Valuation, 71-82 http://www.soa.org/library/newsletters/pension-
	forum/2001/august/pfn0108.pdf
0	CIA CSOP (1000-1800, 3000-3800, 6000-6600) http://www.actuaries.ca/SOP_Doc/1000_General/SOP_e_General_1000.pdf
	http://www.actuaries.ca/SOP_Doc/3000_Pension/SOP_e_Pension_3000.pdf
	http://www.actuaries.ca/publications/2006/206041e.pdf
0	CIA Education Note – Guidance for 2007 on Assumptions for Wind-up, Hypothetical Wind-up and Solvency Valuations with Effective Dates Between December 31, 2006 and December 30, 2007

http://www.actuaries.ca/members/publications/2007/207032e.pdf

 CIA Education note – Pension Commuted Values <u>http://www.actuaries.ca/publications/2006/206042e.pdf</u>

#### Exam

### Instructional Objectives

7. The candidate will be able to analyze data for quality and appropriateness.

Learning Outcomes

Given a context, the candidate will be able to:

- a) Assess data quality
- b) Identify data needed
- c) Make appropriate assumptions where data cannot be provided

#### Syllabus Resources

- ASOP 23 Data Quality http://www.actuarialstandardsboard.org/pdf/asops/asop023\_097.pdf
- CIA CSOP 1000-1800 http://www.actuaries.ca/SOP\_Doc/1000\_General/SOP\_e\_General\_1000.pdf

Exam		
Instruc	Instructional Objectives	
8. Th	e candidate will be able to evaluate the actuarial considerations in plan options and administration.	
Learnin	ng Outcomes	
The ca	ndidate will be able to:	
a) As	ssess the gain/loss from options offered, including: Phased retirement Postponed retirement Early retirement Option factors DROPs	
b) As	ssess the impact of applicable regulation, including: Commuted value standard	
	escribe the similarities of plan options and financial options and how options pricing theory could be applied to the valuation of pension an options	
Syllabu	us Resources	
0 0 0	Watson Wyatt, <i>Canadian Pensions and Retirement Income Planning</i> ,3 <sup>rd</sup> Edition, 2006, Ch. 23, p.386-390, Phased Retirement R-D119-07 Actuarial Equivalent Benefits Forman and Scahill, "Issues for Implementing Phased Retirement in Defined Benefit Plans," <i>North American Actuarial Journal</i> , July 1, 2003	
0	http://www.soa.org/library/journals/north-american-actuarial-journal/2003/july/naaj0307_6.pdf. CSOP 3800 http://www.actuaries.ca/SOP_Doc/3000_Pension/SOP_e_Pension_3000.pdf	
0	Educational note on Pension Commuted Values http://www.actuaries.ca/publications/2006/206042e.pdf	

Exa	Exam	
Inst	tructional Objectives	
9.	The candidate will be able to understand principles and rationale behind regulation. Material on U.S. and Canada	
Lea	rning Outcomes	
The	e candidate will be able to:	
a)	Describe the principles and motivations behind tax policy	
b)	Describe the principles and motivations behind legislated restrictions	
c)	Describe sources and framework of government regulation	
Syl	labus Resources	
	o Morneau Sobeco, Handbook of Canadian Pension & Benefit Plans, 13th edition, 2005, Ch. 8 pp 161-168	
	o Turner and Watanabe, Private Pension Policies in Industrialized Countries, 1995, Ch. 4	

xam		
Instructional Objectives		
0. The candidate will be able to analyze the relationship of plan investments with plan design and valuations.		
earning Outcomes		
a given context, the candidate will be able to:		
Evaluate the interaction of plan investments and:		
<ul> <li>Plan design,</li> </ul>		
<ul> <li>Plan funding,</li> <li>We have a series of the series o</li></ul>		
<ul> <li>Valuation assumptions, and</li> <li>Valuation methods.</li> </ul>		
Solve for a measure of investment performance relevant to a given benchmark		
) Given a context, describe and compare the structure of appropriate investment vehicles		
yllabus Resources		
o Allen et al., Retirement Plans: 401(k)s, IRAs, and Other Deferred Compensation Approaches, 10th Edition, 2008, Ch. 24		
<ul> <li>Morneau Sobeco, Handbook of Canadian Pension &amp; Benefit Plans, 13<sup>th</sup> Edition, 2005, Ch. 6</li> </ul>		
<ul> <li>R-D120-07: Asset/Liability Modeling and Asset Allocation for Pension Plans (Wendt)</li> </ul>		
<ul> <li>R-D121-07: Speed "Relationship between pension assets and liabilities</li> </ul>		
<ul> <li>R-D122-07: The Successful Use of Benchmark Portfolios: A Case Study</li> </ul>		
o R-D123-07: Maginn and Tuttle, Managing Investment Portfolios, Third Edition Chapter 12		
<ul> <li>R-D124-07: Introduction and Overview of Retirement Plan Investments</li> </ul>		

Economic Design of Cash Balance pension Plans, Gold <u>http://www.soa.org/library/monographs/retirement-systems/cash-balance-symposium/2002/january/m-rs02-3-01.pdf</u>

<ul> <li>11. The candidate will be able to apply standards of practice and the guides to professional conduct.</li> <li>Learning Outcomes</li> <li>In general or in a given context, the candidate will be able to: <ul> <li>a) Explain and apply the Guides to Professional Conduct</li> <li>b) Explain and apply the relevant qualification standards</li> <li>c) Demonstrate compliance with legal requirements regarding the actuaries responsibilities to the participants, plan sponsors, etc.</li> <li>d) Explain and apply all of the applicable standards of practice related to valuing retirement obligations.</li> <li>e) Recognize situations and actions that violate or compromise Standards or the Guides to Professional Conduct.</li> </ul> </li> </ul>	Exam				
Learning Outcomes         In general or in a given context, the candidate will be able to:         a)       Explain and apply the Guides to Professional Conduct         b)       Explain and apply the relevant qualification standards         c)       Demonstrate compliance with legal requirements regarding the actuaries responsibilities to the participants, plan sponsors, etc.         d)       Explain and apply all of the applicable standards of practice related to valuing retirement obligations.         e)       Recognize situations and actions that violate or compromise Standards or the Guides to Professional Conduct.         f)       Recommend a course of action to repair a violation of the Standards or the Guides to Professional Conduct.         Syllabus Resources	Instructional Objectives				
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<ul> <li>b) Explain and apply the relevant qualification standards</li> <li>c) Demonstrate compliance with legal requirements regarding the actuaries responsibilities to the participants, plan sponsors, etc.</li> <li>d) Explain and apply all of the applicable standards of practice related to valuing retirement obligations.</li> <li>e) Recognize situations and actions that violate or compromise Standards or the Guides to Professional Conduct.</li> <li>f) Recommend a course of action to repair a violation of the Standards or the Guides to Professional Conduct.</li> <li>Syllabus Resources <ul> <li>Yamamoto, <i>Fundamentals of Retiree Group Benefits</i>, 2006, Appendix F</li> <li>CIA Rules of Professional Conduct http://www.actuaries.ca/members/publications/2006/206091e.pdf</li> <li>SOA Code of Professional Conduct http://www.actuaries.ca/membership/about-code-of-professional-conduct.aspx_</li> <li>CIA Qualification Standards http://www.actuaries.ca/membership/about-code-of-profession.aspx</li> <li>CIA General Standards 1000-1800 – Revised May 2006 http://www.actuaries.ca/members/publications/2006/206141e.pdf</li> <li>Standards of Practice - Practice Specific Standards for Pension Plans 3000-3860 http://www.actuaries.ca/pension_3000.pdf</li> <li>Statement of Principles on Revised Actuarial Standards of Practice for Reporting on Pension Plan Funding, http://www.actuaries.ca/publications/2005/205012e.pdf</li> </ul> </li> </ul>	In generation	al or in a given context, the candidate will be able to:			
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