

## Retirement Company/Sponsor Perspective - CANADA

### Important Information

The examination for this course will be given on Friday, May 9<sup>th</sup> 8:30am–11:45am and 1:30pm–4:45pm and will consist of six hours of written-answer questions. 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. Information regarding registering for exams is available on the [Exam Registration](#) page.

For Spring 2008, this exam includes a case study for the examination. The case study will 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. Candidates must order the 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 [Multiple Choice/Essay Examinations](#).

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.

Exam	Retirement CSP-C
Learning Objectives	
<b>1. The candidate will be able to analyze the risks faced by retirees and the participants of a defined benefit or defined contribution retirement plan, as well as retiree health plans.</b>	
Learning Outcomes	
The candidate will be able to:	
<ul style="list-style-type: none"> <li>a) Identify risks faced by retirees and the elderly</li> <li>b) Propose ways in which retirement plans can manage the range of risks faced by retirees</li> <li>c) Describe the risks faced by participants of a government sponsored retirement plan</li> <li>d) Describe the risks faced by participants of single employer sponsored retirement plans</li> <li>e) Describe the risks faced by participants of a multiemployer retirement plan</li> <li>f) Evaluate benefit adequacy for members of a particular plan given other sources of retirement income</li> <li>g) Construct a model for measuring replacement income adequacy under different scenarios</li> </ul>	
Syllabus Resources	
<ul style="list-style-type: none"> <li>• Allen, <i>Pension Planning, Pension, Profit Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 1, pp. 2-8, “Economic Problems of Age”, OR</li> </ul>	

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Allen, *Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches*, Tenth Edition, 2007, Chapter 1 pp 3-8, "Economic Problems of Old Age"

- McGill, *Fundamentals of Private Pensions* Eighth Edition, 2005, Chapter 14, Chapter 16 pp 427-441
- Mitchell and Husted *Pensions in the Public Sector*, 2001, Chapter 1, Chapter 4 (pp. 98-101 only), Chapter 12
- Morneau Sobeco, *Handbook of Canadian Pension and Benefit Plans*, Thirteenth Edition, 2005, Chapter 1, pp 22-23
- R-C100-07, Murciano, "Living in Retirement—Are Your Employees Really Ready?" *Employee Benefit Plan Review*, Dec 2003
- R-C101-07, Slater, "Seven Steps Toward Creating a Standout Retirement Savings Plan," *Employee Benefit Plan Review*, Sep 2005
- R-C102-07, Turner & Watanabe, *Private Pension Policies in Industrialized Countries*, 1999, Chapter 5, "Pension Risk and Insurance," pp 65-81
- R-C104-07 Replacement Study – A Measurement Tool for Retirement Planning
- R-C123-07, Funding Risks for Multi-Employer Pension Plans
- R-C600-07, FAQs About Actions Taken by OSFI in Connection With Air Canada's Pension Plans
- Post Retirement Risks Chart, SOA, <http://www.soa.org/files/pdf/post-retirement-charts.pdf>
- "Gradual Retirement: An Additional Option in Work and Retirement" by Yung-Ping Chen and John C. Scott from "Retirement Implications of Demographic and Family Change" symposium at the Spring '02 San Francisco SOA meeting
- "Protecting Participants and Beneficiaries in a Phased Retirement World" by Patricia L. Scahill and Jonathan Barry Forman, from "Retirement Implications of Demographic and Family Change" symposium at the Spring '02 San Francisco SOA meeting

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Exam
Learning Objectives
<p><b>2. The candidate will be able to evaluate sponsor’s goals for the retirement plan</b></p> <p>Context:            Sponsor is the entity establishing the plan and operates in private sector, public sector, tax-exempt, and multiemployer environment</p> <p>Retirement plans include qualified/registered, supplemental and deferred compensation retirement plans, and retiree health plans</p>
Learning Outcomes
<p>The candidate will be able to:</p> <ol style="list-style-type: none"> <li>a) Describe the agency relationship between management of the sponsor and its shareholders or taxpayers</li> <li>b) Compare the, sometimes conflicting, interests of management, employees, shareholders or taxpayers (in the case of public sector)</li> <li>c) Describe ways to identify and prioritize the sponsor’s goals related to the design of the retirement plan</li> <li>d) Given a context, assess the feasibility of achieving the sponsor’s goals for their retirement plan</li> <li>e) Given a context, assess the tradeoffs between different goals and prioritize them</li> <li>f) State relationship or recognize contradictions between management’s and shareholders’ goals and the retirement risks faced by retirees</li> <li>g) Assess the appropriateness of the retirement plan features in relation to the sponsor’s total compensation structure</li> <li>h) Assess how retirement plan features create shareholder value</li> </ol>
Syllabus Resources
<ul style="list-style-type: none"> <li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 1, pp. 9-10 (“Increased Productivity”), OR            Allen, <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, 2007, Chapter 1, pp 9-10 (“Increased Productivity”)</li> <li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 2, pp. 32-43, (“Employer Objectives”), OR            Allen, <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, 2007, Chapter 2, pp. 34-45 (“Employer Objectives”)</li> <li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 2, pp. 26-32</li> </ul>

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(“Environmental Considerations”, “Employer Philosophy and Attitudes”), OR

Allen, *Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches*, Tenth Edition, 2007, Chapter 2, pp. 28-33

(“Environmental Considerations,” “Employer Philosophy and Attitudes”)

- McGill, *Fundamentals of Private Pensions*, Eighth Edition, 2005, Chapters 1, 14 and 18
- Morneau Sobeco, *Handbook of Canadian Pension and Benefit Plans*, Thirteenth Edition, Chapter 1
- RC-102-07 & Watanabe, *Private Pension Policies in Industrialized Countries*, 1999, Chapter 5, “Pension Risk and Insurance,” pp 65-81
- R-C105-07, Pension Actuary’s Guide to Financial Economics
- R-C106-07, Case against Stock in Public Pension Plans, Bader and Gold
- Session 19 Seminar, “Identifying Risks Inherent in Retirement Plans,” SOA Record, Vol 31, No. 2  
<http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2005/june/rsa05v31n219sem.pdf>
- “Key Findings and Issues: How Americans Understand and Manage their Retirement Risks”, 2005 Risks and Process of Retirement Survey Report, April 2006
- “Pension Funds: Company Manager’s View”, Exley & Mehta <http://www.soa.org/library/unclassified/m-rs04-1-01.pdf>
- “Retirement Benefits, Economics and Accounting: Moral Hazard and Frail Benefit Designs” by Jeremy Gold, NAAJ January , 2005  
<http://www.soa.org/library/journals/north-american-actuarial-journal/2005/january/naaj0501-6.pdf>

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Learning Objectives
<p><b>3. The candidate will be able to evaluate risks faced by sponsors of a retirement plan by virtue of the plan’s design and be aware of methods to mitigate these risks.</b></p> <p>Context:</p> <p>Sponsor is the entity establishing the plan and operates in private sector, public sector, tax-exempt, and multiemployer environment</p> <p>Retirement plans include qualified/registered, supplemental and deferred compensation retirement plans, as well as retiree health plans</p>
Learning Outcomes
<p>The candidate will be able to:</p> <ol style="list-style-type: none"> <li>a) Identify how plan feature, temporary or permanent, can adversely affect the plan sponsor. For example -An early retirement window offering or a lump sum payout option</li> <li>b) Recommend ways to mitigate the risks identified with particular plan feature [e.g., cap an open-ended COLA]</li> <li>c) Analyze the issues related to plan provisions that cannot be removed</li> <li>d) Describe plan design features to handle the changes in the demographics of the labor force</li> <li>e) Compare the economic value of different plan designs for different stakeholders</li> <li>f) In a given context, assess the effect that changes in plan design might have on collectively bargained agreements</li> <li>g) Assess the impact of possible changes in plan design legislation</li> </ol>
Syllabus Resources
<ul style="list-style-type: none"> <li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 13, pp. 237-242, OR Allen, <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, 2007, Chapter 7, pp. 313-319</li> <li>• McGill, <i>Fundamentals of Private Pensions</i>, Eighth Edition, 2005, Chapter 18</li> <li>• Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, Chapters 1, 2, 8 pp. 198-210 only, 11 (background only) and 15</li> <li>• RC-102-07 &amp; Watanabe, <i>Private Pension Policies in Industrialized Countries</i>, 1999, Chapter 5, “Pension Risk and Insurance,” pp 65-81</li> <li>• R-C107-07, <i>Equities in DB Plans – Is the Traditional 60/40 Mix a Dinosaur?</i>, Cassidy, <i>Employee Benefit Plan Review</i>, Sep 2005</li> </ul>

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- R-C108-07, Why are Healthy Employers Freezing their Pensions?
- R-C123-07 Funding Risks for Multi-Employer Pension Plans
- RSA 1995, Vol. 21 No. 3A “Downsizing and Plan Design”, <http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/1990-99/1995/january/rsa95v21n3a13.pdf>
- Session 19 Seminar, “Identifying Risks Inherent in Retirement Plans,” SOA Record, Vol 31, No. 2. pp. 16-24 , <http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2005/june/rsa05v31n219sem.pdf>
- Pension Forum, Dec. 1, 2000 – SOA Cash Balance Study , sections 1, 2, 3, 5, ( Appendix A for background only) , <http://www.soa.org/library/newsletters/pension-forum/2000/december/pfn0012.pdf>
- SOA Record, Vol 31, No. 2, New Orleans Meeting June 2005 session 56: Plan Design, <http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2005/june/rsa05v31n256sem.pdf>
- "Gradual Retirement: An Additional Option in Work and Retirement" by Yung-Ping Chen and John C. Scott,
- "Protecting Participants and Beneficiaries in a Phased Retirement World" by Patricia L. Scahill and Jonathan Barry Forman,

Exam
Learning Objectives
<p><b>4. The candidate will be able to evaluate and recommend a plan design appropriate for the sponsor’s goals.</b></p> <p>Context:</p> <p>These recommendations will be appropriate for the sponsor’s business and financial environment, workforce objectives and other HR programs. This would incorporate, for example, application of the sponsor’s general industry, philosophy, labor force objectives, financial situation/objectives and total compensation objectives.</p> <p>These recommendations will be appropriate for a particular employee group including, salaried, hourly, unionized and executive employees.</p>
Learning Outcomes
<p>The candidate will be able to:</p> <p>a) Given a context, design retirement programs that manage retirement risk and are consistent with sponsor objectives</p> <p>b) Given a context, design retirement programs that promote employee behavior consistent with sponsor objectives</p>



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Learning Objectives
<b>5. The candidate will be able to synthesize and evaluate deferred compensation and supplemental retirement plans for the highly paid in a given context.</b>
Learning Outcomes
The candidate will be able to, for a deferred compensation or supplemental executive retirement plan:  a) Differentiate between situation where management and shareholders objectives for executive plans coincide and where they differ b) Given a context, recommend a plan to meet the sponsor's objectives and defend the recommendation c) Given a context, assess the plan from an executive's perspective d) Analyze the options for securing the benefit promise e) Assess the taxation issues f) Identify and assess the impact of regulatory constraints g) Describe accounting the financial reporting for these plans and the options available
Syllabus Resources
<ul style="list-style-type: none"><li>• <i>Employee Future Benefits – Additional Disclosures, Background Information and Basis for Conclusion</i>, Appendix B only</li><li>• Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, 2005, Chapter 9</li><li>• R-C602-07, Funding Supplementary Pension Plans, Theroux</li><li>• R-C603-07, RCA: Curmudgeonly Excursion, Theroux</li><li>• R-C604-07, Creative Compensation Arrangements for Corporations, Canadian Tax Foundation article</li></ul>

Exam
Learning Objectives

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<b>6. The candidate will be able to understand the general applicability and design of long-term incentive plans</b>
Learning Outcomes
a) The candidate will be able to identify and describe the design of long-term incentive plans, including: <ul style="list-style-type: none"><li>▪ Bonus/performance plans</li><li>▪ Stock options</li></ul>
b) The candidate will be able to summarize the accounting treatment of these plans
Syllabus Resources
<ul style="list-style-type: none"><li>• Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, 2005, Chapter 10</li><li>• R-C110-07, <i>The Handbook of Executive Benefits</i>, Towers Perrin, Chapter 15 (Golden Parachutes) pp. 238-244 only</li><li>• R-C124-07 Recent Issues in Corporate Financial Reporting, PWC Financial Reporting Release, Feb. 2005 – Appendix only</li><li>• R-C613-07 The Fair Value Method of Measuring Compensation for Employee Stock Options: Basic Principles and Illustrative Examples, MAY 2002, Deloitte and Touche</li></ul>

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Learning Objectives
<b>7. The candidate will be able to evaluate the sponsors financial goals and risk management with respect to their plan</b>
Learning Outcomes
<p>The candidate will be able to:</p> <ol style="list-style-type: none"><li>Describe ways to work with the sponsor on identifying and prioritizing the goals of management and shareholders related to the financial management of their retirement plan</li><li>Compare the, sometimes conflicting, interests of management, employees, shareholders or taxpayers (in the case of public sector)</li><li>Define the retirement plan risks (financial and design) in a way that integrates with the sponsor's risk management strategy</li><li>Analyze how the retirement plan integrates into the sponsor's overall financial position</li><li>Describe how retirement plan accounting impacts the sponsor's overall financial results</li><li>Demonstrate how the retirement plan's cash inflows and outflows can affect the plan sponsor</li><li>Recommend an appropriate funding policy in line with sponsor goals and professional standards. The candidate will be able to defend the recommendations</li><li>Describe how a plan's funded status can impact union negotiations and multiemployer plans</li></ol>
Syllabus Resources
<ul style="list-style-type: none"><li>Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapters 22 and 23, OR Allen. <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, 2007, Chapters 24 and 29</li><li>Mitchell/Hustead, <i>Pensions in the Public Sector</i>, 2001, Chapter 9</li><li>Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, 2005, Chapters 5 and 6</li><li>R-C105-07, Pension Actuary's Guide To Financial Economics</li><li>R-C108-07, Why Healthy Employers are Freezing Their Pension Plans</li><li>R-C111-07, Pensions and Endowments 10: The Optimal Asset Allocation Under Proposed Pension Law by Gordon Latter (pp. 1-8 ONLY)</li><li>R-C112-07 (Formerly 8RU-306-03), Pension Investment and Corporate Risk Management</li><li>R-C113-07, Yikes! How to Think About Risk, Munnell</li><li>R-C114-07, A Fresh Look at Pension Risks, MercerHR.com</li></ul>

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- R-C116-07 , How Fit is Your Funding Policy?
- R-C117-07, Pension Deficits: An Unnecessary Evil , Bader
- R-C123-07 Funding Risks for Multi-Employer Pension Plans
- R-C125-07 “Pensions and Corporate Financial Performance – Keeping Your Eye on the Ball”, Towers-Perrin (p. 1-14 only)
- R-C126-07, Recent Trends in Canadian DB Pension Sector Investment and Risk Management
- R-C127-07 (Formerly 8RU-210-03),Controlling the FAS 87 Balance Sheet Impact by Integrating Funding Expensing and Asset Policies
- R-C128-07, Turner/Watanabe, *Private Pension Policies in Industrialized Countries*, 1999, Chapter 6
- R-C129-07 (Formerly 8RU-201-00), Symposium on Pension Funding Adequacy
- R-C134-07, Maginn and Tuttle, *Managing Investment Portfolios*, Third Edition, Chapter 3 pp. 118-159,
- Session 19 Seminar, “Identifying Risks Inherent in Retirement Plans,” SOA Record, Vol 31, No. 2  
<http://www.soa.org/library/proceedings/record-of-the-society-of-actuaries/2000-09/2005/june/rso05v31n219sem.pdf>
- “Pension Funds and the UK Economy”, Exley, <http://www.soa.org/library/monographs/retirement-systems/the-great-controversy/2004/june/m-rs04-1-16.pdf>
- “Accounting/Actuarial Bias Enables Equity Investment by Defined Benefit Pension Plans,” , Gold, July 2005 NAAJ  
<http://www.soa.org/library/journals/north-american-actuarial-journal/2005/july/naaj0903-1.pdf>
- "Financial Economics and Actuarial Practice", Tony Day, NAAJ July 2004 , <http://www.soa.org/library/journals/north-american-actuarial-journal/2004/july/naaj0403-6.pdf>
- The Earnings Implications of Pension Expense: A Stochastic Analysis of Ten Canadian Companies (Joss) NAAJ October 2005,  
<http://www.soa.org/library/journals/north-american-actuarial-journal/2005/october/naaj0504-3.pdf>
- “Improving Pension Funding and Disclosures: What’s in it for Me?” by Stonewall& Moore from the July 2005 Funding Symposium,  
<http://www.soa.org/library/monographs/retirement-systems/the-future-of-pension-plan-funding-and-disclosure-monograph/2005/december/m-rs05-1-vii.pdf>

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Exam
Learning Objectives
<p><b>8. The candidate will be able to recommend and advise on the financial effects of funding policy and accounting in line with the sponsors goals, given constraints</b></p> <p>Context:</p> <p>Private, industry, multiemployer, public, multinational companies</p>
Learning Outcomes
<p>The candidate will be able to:</p> <ol style="list-style-type: none"> <li>a) Compare the financial economics perspective to the traditional perspective on funding and accounting for retirement plans</li> <li>b) Recommend an appropriate funding method and asset valuation method in line with the sponsor’s investment policy and funding goals. The candidate will be able to defend the recommendation</li> <li>c) Advise retirement plan sponsors on funding costs including tax deductibility, required contributions and other alternatives to meet the sponsor’s goals. This would be consistent with government regulation</li> <li>d) Advise plan sponsors on accounting costs and disclosures for their retirement plans. This would include restrictions imposed by applicable accounting authorities (FASB, CICA, IASC, FRS17)</li> <li>e) From a financial economics perspective, describe differences in economic value on the basis of the financial strength of the sponsoring company</li> <li>f) Perform valuations for the following special purposes, and advise plan sponsors on their financial implications:             <ol style="list-style-type: none"> <li>i. Plan Mergers and Acquisitions</li> <li>ii. Spin-offs</li> <li>iii. Conversions from one plan type to another</li> </ol> </li> <li>g) Perform and interpret the results of projections for short and long range planning including the effect of proposed plan changes</li> </ol>
Syllabus Resources
<ul style="list-style-type: none"> <li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 15, pp.259-272, OR Allen, <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, Chapter 19, “Budgeting Pension Costs,” pp 335-341</li> <li>• Employee <i>Future Benefits – Additional Disclosures, Background Information and Basis for Conclusion</i>, Includes Section 3461 from the CICA Handbook (omit pp. 1-21, 29-34, 111-115)</li> </ul>

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- FASB 158 – Exclude Appendices, <http://www.fasb.org/pdf/fas158.pdf>
- McGill, *Fundamentals of Private Pensions*, Eighth Edition, 2005, Chapter 24, “Pension Cost Illustrations and Forecasts”
- Morneau Sobeco, *Handbook of Canadian Pension and Benefit Plans*, Thirteenth Edition, 2005, Chapter 5, Chapter 7 pp 144-145, Chapter 9, pp. 223-229
- Watson Wyatt, *Canadian Pensions and Retirement Income Planning*, Third Edition, 2006, Chapter 13 pp. 221-223 and Chapter 15
- Yamamoto, *Fundamentals of Retiree Group Benefits*, 2006, Chapter 7 and Chapter 8 pp. 211-235
- R-C103-07, Comparison of IAS 19 with FAS 87/88/106, CICA 3461 and FRS 17 – Summary of Provisions Affecting Accounting for Postretirement Benefits, Towers Perrin
- R-C105-07, Pension Actuary’s Guide to Financial Economics
- R-C117-07, Pension Deficits - Unnecessary Evil
- R-C118-07, (Formerly 8RC-218-00), “Pension Issues in Corporate Sales, Mergers and Acquisitions”
- R-C121-07, (Formerly 8RC-309-06), Converting Pension Plans From a Defined Benefit to a Defined Contribution Design – Issues to Consider in Canada
- R-C129-07, (Formerly 8RU-201-03), “Symposium on Pension Funding”
- R-C130-07, (Formerly 8RU-225-04), Reinventing Pension Actuarial Science (with discussion)
- R-C131-07, Plan Freezes: The New Ice Age
- R-C136-08 (formerly 8RU-226-04), Selection of Valuation Interest Rates for Funding Valuations of Pension Plans – Traditional Pension Plan Approach vs. Financial Economics Approach
- R-C137-08 (formerly 8RU-202-00), Pension Projections, sections I, II, V (sections III, IV, VI and Appendix for background only)
- R-C605-07, Asset Transfer Resulting from Sale of Business, FSCO Policy A700-200
- “Reaffirming Pension Actuarial Science”, Mindlin and counter papers – *Pension Forum* April 2005, Vol. 16 No. 2  
<http://www.soa.org/library/newsletters/the-pension-forum/2005/april/pfn0504.pdf>
- "Financial Economics and Actuarial Practice", Tony Day, NAAJ Jul 01, 2004 (Vol. 8, No. 3), <http://www.soa.org/library/journals/north-american-actuarial-journal/2004/july/naaj0403-6.pdf>
- “Actuarial Aspects of Cash Balance Plans”, *Pension Forum*, Dec. 2000 (excl. appendices), <http://www.soa.org/library/newsletters/pension-forum/2000/december/pfn0012.pdf>

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Exam
Learning Objectives
<b>9. The candidate will be able to synthesize plan design and funding/accounting/economic value</b>
Learning Outcomes
The candidate will be able to: a) Explain the interplay between plan design and plan funding/accounting/economic value b) Given the sponsor's goals, recommend an integrated plan (design and funding/accounting/economic value) and defend the recommendation c) Demonstrate the sensitivity of cost and economic value to given changes in plan design
Syllabus Resources
<ul style="list-style-type: none"><li>• Allen, <i>Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans</i>, Ninth Edition, 2003, Chapter 14, OR Allen, <i>Retirement Plans - 401(k)s, IRAs and Other Deferred Compensation Approaches</i>, Tenth Edition, 2007, Chapter 18</li><li>• R-C105-07, Pension Actuary's Guide to Financial Economics</li><li>• R-C108-07, Why are Healthy Employers Freezing their Pensions?</li><li>• Gold "Retirement Benefits, Economics and Accounting: Moral Hazard and Frail Benefit Designs," January 2005 NAAJ, <a href="http://www.soa.org/library/journals/north-american-actuarial-journal/2005/january/naaj0501-6.pdf">http://www.soa.org/library/journals/north-american-actuarial-journal/2005/january/naaj0501-6.pdf</a></li><li>• Macroeconomic Aspects of Private Pensions Programs, Krzysztof M. Ostaszewski, NAAJ July 2001, <a href="http://www.soa.org/library/journals/north-american-actuarial-journal/2001/july/naaj0107-4.pdf">http://www.soa.org/library/journals/north-american-actuarial-journal/2001/july/naaj0107-4.pdf</a></li><li>• Earnings Implications of Pension Expenses: A Stochastic Analysis of Ten Canadian Companies, Paul Joss, NAAJ Oct. 2005, <a href="http://www.soa.org/library/journals/north-american-actuarial-journal/2005/october/naaj0504-3.pdf">http://www.soa.org/library/journals/north-american-actuarial-journal/2005/october/naaj0504-3.pdf</a></li><li>• Shift to DC pension plans, why did it not happen in Canada?, Brown in NAAJ, 7/2001, <a href="http://www.soa.org/library/journals/north-american-actuarial-journal/2001/july/naaj0107-5.pdf">http://www.soa.org/library/journals/north-american-actuarial-journal/2001/july/naaj0107-5.pdf</a></li><li>• Pension Forum, April 2005, <a href="http://www.soa.org/library/newsletters/the-pension-forum/2005/april/pfn0504.pdf">http://www.soa.org/library/newsletters/the-pension-forum/2005/april/pfn0504.pdf</a></li></ul>

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Exam
Learning Objectives
<b>10. The candidate will be able to analyze the regulatory environment as it effects retirement plans</b>
Learning Outcomes
<p>The candidate will be able to:</p> <p>a) Evaluate the effect of regulatory policies and restrictions, for all retirement plans, associated with:</p> <ul style="list-style-type: none"> <li>▪ Plan design</li> <li>▪ Plan establishment</li> <li>▪ Plan amendment</li> <li>▪ Plan termination/windup</li> <li>▪ Plan merger or spin-off</li> <li>▪ Reporting requirements</li> <li>▪ Members' rights</li> <li>▪ Plan funding</li> <li>▪ Contributions and benefits</li> <li>▪ Individual savings plans</li> <li>▪ Coordination of individual and employer sponsored retirement plans</li> <li>▪ Economic value to shareholders</li> </ul> <p>b) Evaluate the tax implications of retirement plan designs and funding alternatives for the plan sponsor, shareholders and the participants</p> <p>c) Where regulations for tax-assisted retirement plans conflict with sponsor's and shareholders' goals, the candidate will be able to describe and recommend alternatives</p> <p>d) Explain the moral hazard that arises from the existence of outside (government) guarantees on the plan benefits</p> <p>e) Describe and recommend proper plan governance practices and the sponsor's fiduciary responsibility</p>
Syllabus Resources
<ul style="list-style-type: none"> <li>• Mitchell/Hustead, <i>Pensions in the Public Sector</i>, 2001, Chapter 2 pp 33-35</li> <li>• Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, 2005, Chapters 2, 4, 7, 8, 9, 10, 24</li> <li>• RC-102-07/Watanabe, <i>Private Pension Policies in Industrialized Countries</i>, 1999, Chapter 5</li> <li>• Watson Wyatt, <i>Canadian Pensions and Retirement Income Planning</i>, Third Edition, 2006, Chapters 5, 11, 13, 14, 15, 16, 17, 22</li> <li>• R-C116-07, Recent Trends in Canadian Defined-Benefit Pension Sector Investment and Risk Management</li> </ul>

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- R-C117-07, Pension Deficits – Unnecessary Evil” and discussions, <http://www.soa.org/library/newsletters/the-pension-forum/2005/april/pfn0504.pdf>
- R-C119-07 (Formerly 8RU-302-01), Fiduciary Liability Issues for Selection of Investments
- R-C132-07, 20 Questions Directors Should Ask About Their Role in Pension Governance
- R-C606-07, Guideline for Converting Plans From Defined Benefit to Defined Contribution, OSFI
- R-C607-07, Filing Requirements and Procedure on Full or Partial Wind Up of a Pension Plan, Ontario Guideline

Exam
Learning Objectives
<b>11. The candidate will be able to analyze the issues facing retirement plan sponsors regarding investment of fund assets and make recommendations on the actuarial issues*</b>
*Note: the candidate is not expected to provide advice on investment of plan assets
Learning Outcomes
The candidate will be able to: <ul style="list-style-type: none"><li>a) Assess the different types and combinations of investment vehicles for providing retirement benefits given the particulars of the sponsor’s financial circumstances, philosophy, industry, workforce and benefit package</li><li>b) Distinguish the various ways that retirement fund assets are managed</li><li>c) Given a context, evaluate a Statement Of Investment Policy</li><li>d) Assess the potential effects of various investments and investment policies on plan funding (short and long-range), accounting, design and administration</li><li>e) Assess the potential effects of various investments and investment policies on all of the stakeholders, including tax implications</li><li>f) Model the effect on setting investment strategy of factors including, cash flow requirements, various plan designs and various economic environments</li><li>g) Describe the regulatory restrictions on retirement plan assets</li><li>h) Identify the sources of investment risk and assess risk facing retirement funds</li><li>i) Evaluate immunization strategies and other hedging techniques for asset/liability management</li></ul>

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### Syllabus Resources

- Allen, *Pension Planning, Pension, Profit-Sharing, and Other Deferred Compensation Plans*, Ninth Edition, 2003, Chapters 22 and 23, OR Allen, *Retirement Plans – 401(k)s, IRAs and Other Deferred Compensation Approaches*, Tenth Edition, 2007, Chapters 24 and 29
- Morneau Sobeco, *Handbook Of Canadian Pension and Benefit Plans*, Thirteenth Edition, 2005, Chapter 6
- R-C105-07, Pension Actuary's Guide to Financial Economics
- R-C111-07, Pensions and Endowments Ten: The Optimal Asset Allocation Under Proposed Pension Law, Latter and Galdi, Merrill Lynch
- R-C116-07, Yikes, How to think About Risk, Munell
- R-C120-07 (Formerly 8RC-301-00), Introduction & Overview of Retirement Plan Investments
- R-C122-07 (Formerly 8RC-305-00), Statement of Investment Policies for DB and DC Plans
- R-C133-07, (Formerly 8R-204-00), Back to the Future
- R-C134-07, Maginn and Tuttle, *Managing Investment Portfolios*, Third Edition, Chapter 3, pp.118-159, Chapter 6, Chapter 7, pp. 739-845
- R-C135-07, Life Cycle Investing in Theory and Practice, Bodie
- R-C608-07, PPPD Investment Policy Guideline, OSFI
- R-C609-07, Canadian Association of Pension Supervisory Authorities Guideline No. 3: Guidelines for Capital Accumulations Plans
- Pension Forum: April, 2005, entire issue. <http://www.soa.org/library/newsletters/the-pension-forum/2005/april/pfn0504.pdf>
- Accounting/Actuarial Bias Enables Equity Investment by Defined Benefit Plans, Bader & Gold, NAAJ July 2005, <http://www.soa.org/library/journals/north-american-actuarial-journal/2005/july/naaj0903-1.pdf>
- "Full Circle, Purchasing Annuities in DB Plans", Ruloff, <http://www.soa.org/library/monographs/retirement-systems/managing-retirement-assets-symposium/2004/march/m-rs04-2-05.pdf>

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Exam
<b>Learning Objectives</b>
<b>12. The candidate will be able to apply the standards of practice and guides to professional conduct</b>
Learning Outcomes
<p>In general or given a context, the candidate will be able to:</p> <ol style="list-style-type: none"> <li>a) Apply the standards related to communications to plan sponsors and others with an interest in an actuary's results (i.e., participants, auditors, etc.)</li> <li>b) Explain and apply the Guides to Professional Conduct</li> <li>c) Explain and apply relevant qualification standards</li> <li>d) Demonstrate compliance with legal requirements regarding the actuaries responsibilities to the participants, plan sponsors, etc.</li> <li>e) Explain and apply all of the applicable standards of practice related to valuing retirement obligations</li> <li>f) Recognize situations and actions that violate or compromise Standards or the Guides to Professional Conduct</li> <li>g) Recommend a course of action to repair a violation of the Standards or the Guides to Professional Conduct</li> </ol>
Syllabus Resources
<ul style="list-style-type: none"> <li>• Morneau Sobeco, <i>Handbook of Canadian Pension and Benefit Plans</i>, Thirteenth Edition, 2005, Chapter 5</li> <li>• Yamamoto, <i>Fundamentals of Retiree Group Benefits</i>, 2006, Appendix F, pp. 1-27</li> <li>• R-C119-07, (Formerly 8RC-302-01)Fiduciary Liability Issues for Selection of Investments</li> <li>• R-C610-07,CIA General Standards 1000-1800 – Revised May 2006</li> <li>• R-C611-07, CIA Consolidated Standards of Practice - Practice Specific Standards for Pension Plans 3000-3800– Revised May, 2006</li> <li>• R-C612-07, CIA Standards of Practice for Post-Employment Benefit Plans 6000-6600</li> <li>• ASOP 27 <a href="http://www.actuarialstandardsboard.org/pdf/asops/asop027_053.pdf">http://www.actuarialstandardsboard.org/pdf/asops/asop027_053.pdf</a></li> <li>• ASOP 35 <a href="http://www.actuarialstandardsboard.org/pdf/asops/asop035_093.pdf">http://www.actuarialstandardsboard.org/pdf/asops/asop035_093.pdf</a></li> <li>• Pension Forum January 2005, “A Reevaluation of ASOP 27, Post-Enron: Is It an Adequate Standard of Professionalism?” by Todisco – Discussions of above article by North and Turpin plus author’s response, <a href="http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf">http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf</a></li> <li>• What’s Wrong with ASOP 27? Bad Measures, Bad Decisions by Bader and Gold, <a href="http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf">http://www.soa.org/library/newsletters/the-pension-forum/2005/january/pfn0501.pdf</a></li> </ul>

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