

EDUCATION AND EXAMINATION COMMITTEE OF THE SOCIETY OF ACTUARIES (SOA)

SPRING 2013

RETIREMENT BENEFITS—DESIGN AND PRICING (DP)—U.S.

INTRODUCTORY STUDY NOTE

1. The Retirement Benefits—Design and Pricing, US examination for Spring 2013 will be given on **Thursday, May 2nd from 8:30 a.m. –12:15 p.m.** The examination will consist of 3 ½ hours of written answer questions. A read-through time of 15 minutes will be given prior to the start of the exam.

2. **Learning Objectives**

The candidate should be very familiar with the Learning Objectives. These Learning Objectives describe what is expected from candidates who complete this exam and, therefore, were the first ingredient in developing the syllabus. You will notice that candidates are expected to "analyze," "explain," "calculate," "apply," etc. These skills represent the level of ability that is expected from DP candidates, and exam questions will be established and evaluated with these specific skills in mind. While studying the syllabus material, candidates may want to refer back to the Learning Objectives to remain focused on the goals for the DP exam.

3. In order to attain Fellowship in the SOA in the Retirement Benefits Track, candidates must successfully complete both the Design & Pricing (DP) Exam and the Company Sponsor Perspective (CSP) Exam administered by the SOA. Both of the exams cover topics that are applicable to defined benefit and defined contribution retirement plans, executive benefit plans and retiree health plans. Specific topics included in both the DP and CSP exams cover items such as valuation, plan design, plan funding and investment, practice standards and regulation.

While there are broad retirement topics that have common ground between the DP and CSP exams, the focus of the DP and CSP exams is quite different. The DP exam is intended to cover the basics of: plan design for both broad-based and executive retirement benefit plans, plan valuation, assumption setting, regulation and plan assets held for investment. In the US, portions of these topics are not included on the DP exam, but are rather covered as part of the Enrolled Actuaries (EA) examinations.

Many of the topics identified as applicable to the DP exam are also included in the material for the CSP exam. In fact, there are a number of syllabus references that are common to both the DP and CSP exam. The CSP exam, however, is designed to approach these broad retirement topics within the context of a plan sponsor's particular situation, with particular emphasis on the risks associated with a given approach that a sponsor may choose to take. Also, since the publication and management of financial statements is the responsibility of the plan sponsor, the financial statement accounting requirements associated with retirement plans are logically part of the CSP exam syllabus.

To illustrate the different focus of the DP and CSP exams, consider the topic of "hybrid" plan design. An appropriate DP examination question would be to ask for a description of the unique features of the various forms of hybrid plans, or for a comparison of hybrid plans to traditional

defined benefit or defined contribution plans. For the CSP exam, an appropriate question would be to ask for an assessment of the financial risks to plan participants of a hybrid design versus a traditional defined benefit or defined contribution plan, or to ask about specific accounting valuation issues unique to hybrid plans.

The following link shows a recommended FSA module/exam sequence for the Retirement Benefits track:

<http://www.soa.org/Education/Exam-Req/edu-fsa-recommended.aspx>

This order is NOT mandated. Each candidate will determine the appropriate sequence based on factors including readiness to sit for an exam, exam administration schedules, or study time available. Although none of the FSA retirement modules nor the DP exam are prerequisites for the CSP exam, please keep in mind that questions for the CSP exam will be set assuming that candidates have a basic familiarity with the general topics and concepts that are covered in the FSA retirement modules and the DP exam.

In the US, successful completion of the EA exams administered by the Joint Board for the Enrollment of Actuaries is required in order to attain the FSA designation in the Retirement Benefits Track. The EA exams can be completed at any time during the above sequence. The syllabus of both the US DP and US CSP exams is set with the intention of being independent of the EA exam syllabus. Examination questions for both the US DP and US CSP exams are set without any reliance on the EA exams as a prerequisite.

4. Any changes in the Syllabus for this exam will be published under “Updates” in this exam’s home page on the SOA Web site.

Past exams, solutions and case studies are available at:

<http://www.soa.org/education/exam-req/syllabus-study-materials/edu-multiple-choice-exam.aspx>

5. The Syllabus material includes textbooks, online readings, as well as the study notes listed below. A complete listing of the Syllabus and Learning Objectives is located in this exam’s home page on the SOA Web site.

Code	Title
	Case Study (Available only on syllabus page)
R-D100-11	Multiemployer Plans
R-D101-07	Converting Pension Plans from a Defined Benefit to a Defined Contribution Design - Issues to Consider in Canada (pp. 1–5 only)
R-D103-07	Should Variable Pay Count Towards Benefits Calculations?
R-D108-07	Pension Challenges and Pension Reforms in OECD Countries
R-D109-07	Financial Economics and Canadian Pension Valuation
R-D112-10	Selection of Actuarial Assumptions
R-D114-07	An Introduction to Duration for Pension Actuaries

Code	Title
R-D115-07	Reinventing Pension Actuarial Science
R-D117-07	Pension Projections
R-D120-07	Asset/Liability Modeling and Asset Allocation for Pension Plans
R-D123-07	Chapter 12 of <i>Managing Investment Portfolios</i>
R-D124-11	Introduction and Overview of Retirement Plan Investments
R-D125-11	ASOP 35, Selection of Demographic and Other Noneconomic Assumptions for Measuring Pension Obligations
R-D126-12	ASOP 27, Selection of Economic Assumptions for Measuring Pension Obligations
R-D127-12	ASOP 6, Measuring Retiree Group Benefit Obligations
R-D129-09	How the Liability Benchmark is Developed and Used in Practice
R-D130-09	ASOP 23, Data Quality
R-D131-09	Plan Sponsor Guide to Liability-Driven Investing
R-D132-09	Top 10 Myths About Liability Driven Investment
R-D133-09	Chapter 8, Section 6 of <i>Managing Investment Portfolios</i>
R-D135-12	ASOP 4, Measuring Pension Obligations and Determining Pension Plan Costs or Contributions
R-D137-10	Discounting State and Local Pension Liabilities
R-D139-11	The Use of Health Savings Accounts for Health Care in Retirement
R-D140-11	Private Pensions: Alternative Approaches Could Address Retirement Risks Faced by Workers but Pose Trade-offs
R-D141-11	Sharing Risk: The Netherlands' New Approach to Pensions
R-D142-11	How to Close the Funding Gap in Dutch Pension Plans? Impact on Generations
R-D143-11	The Funding of State and Local Pensions: 2009-2013
R-D144-12	Risk Allocation in Retirement Plans: A Better Solution
R-D145-12	Legal and Research Summary Sheet: Phased Retirement
R-D146-12	Evaluating the Design of Private Pension Plans: Costs and Benefits of Risk-Sharing
R-D147-12	Executive Retirement Benefits Practices: 2011 Report
R-D148-12	Chapter 34 of <i>The Handbook of Employee Benefits: Health and Group Benefits</i> , Seventh Edition
R-D149-12	Green DB: Eliminate Wasteful Practices and Make Your DB Plan Sustainable

Code	Title
R-D150-12	Chapters 1, pp. 4-11 and 5 of <i>Pension Policy: The Search for Better Solutions</i>
R-D151-12	The Impact of the Financial Crisis on Defined Benefit Plans and the Need for Counter-Cyclical Funding Regulations
R-D152-12	International (offshore) Pension Plans—A Growing Trend
R-D804-09	Internal Revenue Code §409A and Non-Qualified Plan Design Considerations
R-D805-09	ASOP 41, Actuarial Communications
R-D807-11	State and Local Government Pension Plans
R-D808-11	ASOP 44, Selection and Use of Asset Valuation Methods for Pension Valuations
R-D809-11	ASOP 34, Actuarial Practice Concerning Retirement Plan Benefits in Domestic Relations Actions
R-D810-12	The Economics of State and Local Pensions
R-D811-12	State and Local Pensions are Different From Private Plans
R-D812-12	Deferred Retirement Option Plans (DROP Plans)

6. Errata:

Fundamentals of Retiree Group Benefits, 2006, ACTEX

Errata: http://www.actexmadriver.com/client/client_pages/actex_errata2.cfm

7. A case study will be used as a basis for some questions on the examination. Be sure to answer the questions asked by referring to the case study. For example, if asked for advantages of a particular plan design to a company referenced in the case study, limit your response to the specifics for that company. Other advantages should not be listed as they are extraneous to the question and will result in no additional credit. Further, if they conflict with the applicable advantages, no credit will be given. Candidates are advised to familiarize themselves with the case study. A copy will be included in the examination booklet. Candidates will not be allowed to bring their study note copy of the case study into the examination room.

8. The pension plan landscape is evolving constantly. Although the syllabus material is the best available material to meet the learning objectives, the material may not refer to the most up-to-date laws, accounting standards or other best practices. Candidates should be aware of any new developments when applying the syllabus material to real-life situations. However, for purposes of the exam, only the syllabus material is tested; any updates to this material which are not included in the syllabus are not required reading for the exam.

A few of the study notes contain introductory pages which identify topics which are affected by recent updates. The following is an additional list of syllabus material which has been affected by recent updates which are not covered in the syllabus (note that this list is not intended to be exhaustive; there may be additional syllabus materials affected by recent updates which are not included in the list):

- Allen, chapter 9. The proposed regulations for 403(b) plans mentioned in this chapter have now been finalized.
- R-D103-07: Should Variable Pay Count Towards Benefits. While the trends and strategy discussed in this reading are still relevant, the compensation limits are out of date and some of the survey results may be different if the surveys were performed today.

9. Several book distributors carry some or all of the textbooks for the Society of Actuaries exams. A list appears on the SOA Web site <http://www.soa.org/education/exam-req/resources/edu-txt-manuals.aspx>.
10. The examination questions for this exam will be based on the required readings for this exam. If a conflict exists (in definitions, terminology, etc.) between the readings for this exam and the readings for other exams, the questions should be answered on the basis of the readings for this exam.
11. Candidates may ONLY use the battery or solar-powered Texas Instruments BA-35 model calculator, the BA II Plus* the BAII Plus Professional* or TI-30Xa or TI-30X II* (IIS solar or IIB battery) or TI-30X MultiView (XS solar or XB battery). Candidates may use more than one of the approved calculators during the examinations.

Calculator instructions may not be brought into the exam room. During the exam, the calculator must be removed from its carrying case so the supervisor can confirm that it is an approved model. Candidates using a calculator other than the approved models will have their exams disqualified.

Candidates can purchase calculators directly from: Texas Instruments, Attn: Order Entry, PO Box 650311, Mail Station 3962, Dallas, TX 75265, phone 800/842-2737 or <http://epsstore.ti.com>.

The memory of **TI-30X II, **TI-30X MultiView**, **BA II Plus** and **BAII Plus Professional** will need to be cleared by the examination supervisor upon the candidate's entrance to the examination room.*

12. A list of various seminars/workshops and study manuals appears on the SOA Web site: <http://www.soa.org/education/exam-req/resources/edu-sem-workshops.aspx> and <http://www.soa.org/education/exam-req/resources/edu-txt-manuals.aspx>. These seminars/workshops and study manuals do not reflect any official interpretation, opinion, or endorsement of the Society of Actuaries or its Education Committee.

Please note that the Education Committee expects candidates to read the material cited in the *Syllabus* and to use other material as a complement to the primary sources rather than a substitution for them.

13. The Society of Actuaries provides study notes to persons preparing for this examination. They are intended to acquaint candidates with some of the theoretical and practical considerations involved in the various subjects. While varying opinions are presented where appropriate, limits

on the length of the material and other considerations sometimes prevent the inclusion of all possible opinions. These study notes do not, however, represent any official opinion, interpretation or endorsement of the Society of Actuaries. The Society is grateful to the authors for their contributions in preparing study notes.

The American Academy of Actuaries, the Canadian Institute of Actuaries, the Conference of Consulting Actuaries, and the Society of Actuaries jointly sponsor the examinations administered by the Society of Actuaries.