

預告 108 年起「財產保險業精算人員考試」考試範圍與參考用書變更

G6 考試範圍變更

考試範圍	變更項目
<p>A. 分類費率釐訂(20-30%)</p> <ol style="list-style-type: none"> 1. 辨識跟評估可能的費率等級。 2. 衡量可能分類的統計檢定和估計費率等級的損失成本。 3. 進行廣義線性模型的分類費率釐訂法之公式化和解決。 4. <u>評估模型合適性並說明其結果</u> <p>B. 超額、自負額和個別風險費率(50-70%)</p> <p>超額、自負額費率</p> <ol style="list-style-type: none"> 1. 應用損失頻率跟損失幅度決定分層保險的預期損失。 2. 估計總損失分配。 <p>經驗費率法</p> <ol style="list-style-type: none"> 3. 根據個別風險經驗和暴險，進行分類費率法之調整。 4. 評斷經驗費率法的有效性。 <p>追溯和損失敏感費率法</p> <ol style="list-style-type: none"> 5. 如何建構追溯費率法。 6. 分析損失敏感費率法(LSRP)的組成。 7. 如何依照損失成本，計算分層風險的成本。 	<p>新增項目：</p> <ol style="list-style-type: none"> 4. <u>評估模型合適性並說明其結果</u>

考試範圍	變更項目
<p>C. 巨災跟再保定價(15-20%)</p> <p>巨災費率釐訂</p> <ol style="list-style-type: none"> 1. 描述巨災模型的組成與結構。 2. 解釋巨災模型用在保險費率釐訂跟投資組合管理。 <p>再保險費率釐訂</p> <ol style="list-style-type: none"> 3. 確定不同類型的再保險合約中的價格。 4. 確定共同條款影響再保險訂價。 5. 如何依照損失分配運用及配適暴險曲線(exposure curves)。 	

G6 考試參考用書變更

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<ul style="list-style-type: none"> ●Bailey, R. A.; and Simon, L. J., “An Actuarial Note on the Credibility of Experience of a Single Private Passenger Car,” PCAS XLVI, 1959, pp. 159-164. Including discussion of paper: Hazam, W. J., PCAS XLVII, 1960, pp. 150-152. ●Bernegger, S., “Swiss Re Exposure Curves and the MBBEFD Distribution Class,” ASTIN Bulletin, Vol. 27, No. 1, May 1997, pp. 99-111. 	<p>刪除書目：</p> <ul style="list-style-type: none"> ●<u>American Academy of Actuaries Committee on Risk Classification, “Risk Classification Statement of Principles,” June 1980. [Available at no charge from the American Academy of Actuaries at (202) 223-8196 or on the Academy’s Web Site at www.actuary.org.]</u> ●<u>Brosius, J. E., “TableM Construction,” CAS Study Note, 2002.</u>

參考書目	變更項目
<ul style="list-style-type: none"> ● Clark, D. R., “Basics of Reinsurance Pricing,” CAS Study Note, Revised 2014. Candidates are not responsible for Section 6 of the paper. ● Couret, J.; and Venter, G., “Using Multi-Dimensional Credibility to Estimate Class Frequency Vectors in Workers Compensation,” ASTIN Bulletin, Vol. 38, No. 1, May 2008, pp. 72-85. ● Robertson, J.P., “NCCI’s 2007 Hazard Group Mapping,” Variance, Vol. 3, Issue 2, 2009, Casualty Actuarial Society, pp. 194-213. ● Actuarial Standards Board of the American Academy of Actuaries, “Actuarial Standard of Practice No. 12, Risk Classification (for all Practice Areas),” December 2005, updated for deviation language in May 2011. ● Bahnemann, D., “Distributions for Actuaries,” CAS Monograph # 2, Chapters 5 and 6. It is highly recommended that candidates should read the entire monograph, as the material in Chapters 1-4 will be assumed to be familiar to candidates. ● Fisher, G. et al., “Individual Risk Rating Study Note,” CAS Study Note, April 2017. Includes the case study presented in an Excel file. 	<p>刪除書目：</p> <ul style="list-style-type: none"> ● <u>Fisher, G.K., “Pricing Aggregates on Deductible Policies,” CAS Study Note, May 2002.</u> ● <u>Gillam, W. R., “Workers’ Compensation Experience Rating: What Every Actuary Should Know,” PCAS LXXIX, 1992, Sections 1-5, pp. 215-239.</u> ● <u>Gillam, W. R.; and Snader, R. H., “Fundamentals of Individual Risk Rating,” National Council on Compensation Insurance (Study Note), 1992, Part I.</u> ● <u>Gillam, W. R.; and Snader, R. H., “Fundamentals of Individual Risk Rating,” National Council on Compensation Insurance (Study Note), 1992, Part II.</u> ● <u>Gillam, W. R.; and Snader, R.H., “Fundamentals of Individual Risk Rating,” National Council on Compensation Insurance (Study Note), 1992, Part III.</u> ● <u>Goldburd, M.; Khare, A.; and Tevet, D., “Generalized Linear Models for Insurance Rating,” CAS Monograph #5, Chapters 1-8.</u> ● <u>Grossi, P.; and Kunreuther, H., Editors, Catastrophe Modeling: A New Approach to Managing Risk, 2005, Springer, Chapters 2-6 (excluding references at the end of each chapter). Errata 2.4.</u>

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<p>●Grossi, P. and Kunreuther, H., Editors, Catastrophe Modeling: A New Approach to Managing Risk, 2005, Springer, Chapters 2-6 (excluding references at the end of each chapter) and including errata for Section 2.4, updated May 2016.</p>	<p>刪除書目：</p> <ul style="list-style-type: none"> ●<u>Lee, Y. S., “The Mathematics of Excess of Loss Coverages and Retrospective Rating—A Graphical Approach,” Sections 1-3, PCAS LXXV, 1988, pp. 49-64.</u> ●<u>Lee, Y. S., “The Mathematics of Excess of Loss Coverage and Retrospective Rating—A Graphical Approach,” Section 4, PCAS LXXV, 1988, pp. 64-78. Candidates are not responsible for “Other Applications” on pp. 75-76.</u> ●<u>Mahler, H. C., “An Example of Credibility and Shifting Risk Parameters,” PCAS LXXVII, 1990, pp. 225-282. Candidates will not be tested on the Appendices.</u> ●<u>Mahler, H. C., Discussion of “Retrospective Rating: 1997 Excess Loss Factors,” PCAS LXXXV, 1998, pp. 316-344. Appendices B-D are for reference only; candidates do not need to memorize formulas in Appendices B-D. Including Errata.</u> ●<u>Mahler, H. C., “Workers Compensation Excess Ratios: An Alternative Method of Estimation,” PCAS LXXXV, 1998, pp. 132-156.</u> ●<u>Miccolis, R. S., “On the Theory of Increased Limits and Excess of Loss Pricing,” PCAS LXIV, 1977, pp. 27-59 excluding “Risk Reduction by Layering” (pp. 45-49). Including discussion of paper: Rosenberg, S., PCAS LXIV, 1977, pp. 60-73.</u>

參考書目	變更項目
	<p>刪除書目：</p> <ul style="list-style-type: none"> ● <u>Skurnick, D., “The California Table L,” PCAS LXI, 1974, pp. 117-140. Including discussion of this paper: Gillam, W.R., PCAS LXXX, 1993, pp. 353-365.</u> ● <u>Teng, M.T.S., “Pricing Workers’ Compensation Large Deductible and Excess Insurance,” Casualty Actuarial Society Forum, Winter 1994, pp. 413-437.</u> ● <u>Venter, G.G., “Experience Rating—Equity and Predictive Accuracy,” NCCI Digest, April 1987, Volume II, Issue I, pp. 27-35. (Pages are shown as 1-9 in the Study Kit version.)</u> <p>新增書目：</p> <ul style="list-style-type: none"> ● Actuarial Standards Board of the American Academy of Actuaries, “Actuarial Standard of Practice No. 12, Risk Classification (for all Practice Areas),” December 2005, updated for deviation language in May 2011. ● Bahnemann, D., “Distributions for Actuaries,” CAS Monograph # 2, Chapters 5 and 6. It is highly recommended that candidates should read the entire monograph, as the material in Chapters 1-4 will be assumed to be familiar to candidates. ● Fisher, G. et al., “Individual Risk Rating Study Note,” CAS Study Note, April 2017. Includes the case study presented in an Excel file.

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