



Actuarial Science for Decision Making and Policy

Effective Framework for a Sound Decision Making and Policy Insights

► Upcoming Sessions

05-09 Aug 2024	London - UK	\$5,950
07-11 Oct 2024	Dubai - UAE	\$5,950
02-06 Dec 2024	London - UK	\$5,950

► Training Details

Training Course Overview

In today's complex world, decisions made by policymakers and business leaders have far-reaching consequences. Actuarial science provides a robust framework for making informed decisions in uncertain environments, particularly in fields such as insurance, finance, and public policy. This seminar aims to equip participants with the foundational knowledge and practical skills needed to apply actuarial principles in decision-making processes and policy formulation.

This highly informative and practical Anderson seminar aims to provide participants with a solid understanding of actuarial principles, techniques, and applications in corporate decision making and policy formulation. Each day's sessions build upon the previous ones, culminating in the integration of actuarial insights into strategic business planning.

This training course will feature:

- Foundations of Actuarial Science
- Principles of probability and statistics in actuarial analysis
- Basic concepts of risk assessment and management
- Actuarial Applications in Finance
- Case studies in actuarial decision-making

Training Course Objectives

By the end of this training course, participants will be able to:

- Provide a comprehensive understanding of the fundamental concepts and theories of actuarial science
- Explore how actuarial techniques can be applied to assess and manage risk effectively
- Examine the role of actuarial analysis in informing policy decisions across various sectors
- Develop practical skills in data analysis, modeling, and interpretation for decision-making purposes
- Foster critical thinking and problem-solving abilities necessary for addressing real-world challenges in decision-making and policy formulation

Designed for

This Anderson training course is suitable to a wide range of professionals but will greatly benefit:

- ▶ Actuaries and Financial Analysts
- ▶ Risk Managers
- ▶ Underwriters
- ▶ Finance and Investment Professionals
- ▶ Regulators and Policy Maker
- ▶ Consultants and Advisors

Learning Methods

This training course will utilise a variety of proven adult learning techniques to ensure maximum understanding, comprehension and retention of the information presented. This online training course focuses strongly on interactivity and practical exercises. Short presentations are combined with extensive discussions, relevant videos, team activities and case study exercises. Examples from the delegates own organizations are used to bring training to life and to ground it in reality. An opportunity for teams to pitch brand-new business ideas invariably proves to be the highlight of this hands-on course.

► Training Details

Day One: Understanding Actuarial Science Fundamentals

- ▶ Key Concepts in Actuarial Science
- ▶ Risk, Uncertainty, and Probability
- ▶ Time Value of Money
- ▶ Compound Interest and Present Value
- ▶ Annuities and Perpetuities
- ▶ Amortization and Sinking Funds
- ▶ Probability Distributions
- ▶ Measures of Central Tendency and Dispersion
- ▶ Correlation and Regression Analysis

Day Two: Actuarial Models and Techniques in Insurance

- ▶ Life Tables and Mortality Models
- ▶ Survival Analysis
- ▶ Life Insurance and Annuity Products
- ▶ Claims Reserving Methods
- ▶ Frequency and Severity Models
- ▶ Pricing and Underwriting

Day Three : Financial Economics for Actuaries

- ▶ Capital Asset Pricing Model (CAPM)
- ▶ Option Pricing Theory
- ▶ Asset-Liability Management (ALM)
- ▶ Enterprise Risk Management (ERM)
- ▶ Solvency II and Regulatory Requirements
- ▶ Risk Mitigation Strategies

Day Four: Actuarial Applications in Corporate Decision Making

- ▶ Pension Funds and Retirement Benefits
- ▶ Health Insurance Reserving & Long-Term Care Provisions
- ▶ Investment Strategies for Insurers
- ▶ Asset Allocation
- ▶ Portfolio Optimization
- ▶ Risk-Adjusted Return Analysis
- ▶ Decision Making under Uncertainty
- ▶ Expected Utility Theory
- ▶ Behavioral Finance in Actuarial Practice

Day Five: Integrating Actuarial Insights into Corporate Strategy

- ▶ Actuarial Consultancy and Advisory Services
- ▶ Role of Actuaries in Corporate Decision Making
- ▶ Adding Value through Actuarial Insights
- ▶ Effective Communication with Stakeholders
- ▶ Actuarial Ethics and Professional Standards
- ▶ Code of Conduct
- ▶ Conflicts of Interest
- ▶ Case Studies and Ethical Dilemmas

▶ The Certificate

Anderson Certificate of Completion will be provided to delegates who attend and complete the course

▶ INFO & IN-HOUSE SOLUTION

For more information about this course, call or email us at:

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Email: info@anderson.ae

Request for a Tailor-made training and educational experience for your organization now:

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