



Reacfin **Masterclass** (IA|BE CPD eligible)

Pricing and provisioning in Health Insurance

Fully Online

About the **masterclass**

Health insurance is a rather complicated business due to the inherent risks of these (often long-term) products and the constraints imposed by the legal context (e.g. Verwilghen law in Belgium, laws on worker's compensation,...).

Adequately pricing and provisioning these products is therefore essential for the long-term financial stability of the business.

The aim of this workshop is to

- Present basic and more advanced actuarial/statistical techniques used in health pricing and provisioning
- Explain how these models can be implemented in the context of medical, disability or worker's compensation insurance products
- Perform case studies in Excel

The total duration, that includes attending the webinars and the personal assignments, is estimated to 16 hours.

The whole training is worth 16 Continuous Professional Development (CPD) points at the Institute of Actuaries in Belgium (IA|BE).

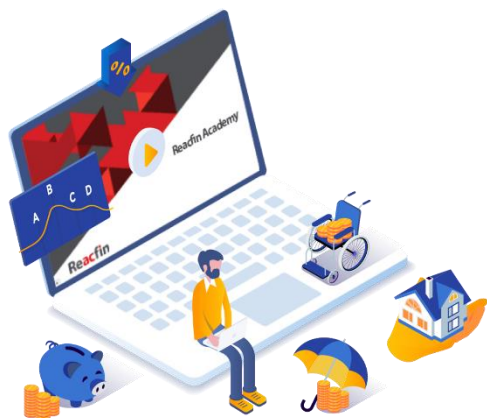


Practical **content**



E-learning

3 e-learning modules to build the foundations



- **Pedagogical** presentation of the concepts with examples
- To be followed by the participants **whenever they want** between the webinars as pre-requisites



Webinars and case studies

Up to 7 webinars to consolidate and expand practical knowledge



- **Complementary** knowledge **topics** covered during the webinars
- Opportunity to **ask questions** through specific Q&A sessions
- Presentation of **practical examples**
- Performance of **case studies allowing to put learning into practice**
- Webinars will be recorded so that you can view later if you were not available or want to review the material. Recording available for 2 months after the training

About the agenda

Module 1 – Medical insurance: pricing and provisioning (Total estimated duration: 7h)

Webinar #1 – length: 2h

- Understanding the products, legal context and types of provisions
- Pricing: one year vs lifelong contracts, components of pricing, types of tariff, basic pricing models
- Case study: Computing level premium for hospitalization insurance

Pre-requisites:

E-learning #1 – length: 1h

- Introduction to health insurance products
- Pricing and provisioning in health insurance

Webinar #2 – length: 2h

- Advanced Pricing models (multi-state, GLM, ML,...)
- Indexation process
- Provisions: focus on claims provisions

Pre-requisites:

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Webinar #3 – length: 2h

- Provisions: Focus on ageing reserve
- Case study: Computing ageing reserve in hospitalisation insurance

Pre-requisites:

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Module 2 – Disability insurance: pricing and provisioning (Total estimated duration: 4h)

Webinar #4 – length: 2h

- Understanding the products, legal context and types of provisions
- Pricing: capital vs annuities, pricing models
- **Case study:** Computing premium of a disability insurance product

Pre-requisites:

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Webinar #5 – length: 2h

- Provisions: claims provisions and ageing reserve
- **Case study:** Computing the annuity reserve

Pre-requisites:

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Module 3 – Worker’s compensation insurance (Total estimated duration: 5h)

Webinar #6 – length: 2h

- Understanding the products, legal context and types of provisions
- Reserving: Be GAAP Legal Framework vs Solvency II vision
- Case study: BGAAP vs economic view of the annuity provision

Pre-requisites:

E-learning #2 – length: 1h

- Worker’s compensation (law 71)

Webinar #7 – length: 2h

- Pricing: data collection and pre-treatment, GLMM and credibility pricing
- Case study: Implementing a credibility formula in worker’s compensation

Pre-requisites:

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About **Reacfin Academy**

Reacfin Academy is the business line of Reacfin dedicated to continuous professional education and training in Finance, Risk Management, Portfolio Management, Actuarial Science and Data Science.



www.reacfinacademy.com

About the **speakers**



Xavier MARECHAL

CEO Reacfin and IA|BE qualified actuary

Expert in Non-Life and Health insurance (pricing, product development, reserving and risk management) and machine learning.



Michaël LECUIVRE

Head of Reacfin's Non-Life Center of Excellence and IA|BE qualified actuary

Expert in Non-Life and Health insurance (pricing, product development, reserving and risk management).



Olivier SOUPART

Manager in Reacfin's Non-Life Center of Excellence and IA|BE qualified actuary

Expert in Non-Life and Workers' Compensation insurance (Reserving, risk management, product development and pricing).



Julie ZIANS

Manager in Reacfin's Non-Life Center of Excellence and IA|BE qualified actuary

Expert in Non-Life and Health insurance (pricing, product development, reserving and risk management) and machine learning.