Actuarial Education in Finland

29.11.2018 - Jari Niittuinperä
Agenda

- Actuaries in Finland
- Two separate qualification processes
- Comparison to IAA Syllabus
- Major additional requirements
- Exams for the examination board
- Continuous professional development
- Quality assurance
Actuaries in Finland

- The Actuarial Society of Finland
  - 112 full members
  - 14 alumni members
  - 231 other members

- Companies
  - 10 life
  - 39 non-life
  - 6 pension institutions (including public sector institution)
  - 54 pension foundations

- The Act on Insurance Companies requires each company to have an actuarial function and a responsible actuary (an appointed actuary)

- The responsible actuary has to have a qualification.

- Important stakeholders
  - Management and Board of Managers
  - Accounting, Auditors
  - Supervisors
  - The Ministry of Health and Social Affairs
There are two separate qualification processes:

**Qualification process**
- The Supreme Administrative Court
- Administrative Court
- Ministry of Social Affairs and Health
- Approval to act as a qualified actuary

**Full membership process**
- Appeal Board
- Ethics Committee
- Board
- Education Committee
- Full membership

- Cooperation regarding examination contents
- Information exchange about qualifications and full membership statuses
# Finnish Actuarial Education System Compared to the Core Syllabus

## University Degree
Upper University degree major in mathematics (or equivalent)

## Specific University Courses
- Life insurance mathematics
- Risk theory
- Investment mathematics and finance
- Probability theory
- Statistics and stochastics
- Economics

## Examination Board (SHV-lautakunta)
- Accounting
- Insurance law
- Solvency
- Applied insurance mathematics
- Actuarial Theses
- Presentation about Actuarial Theses

## Actuarial Work Experience: 1-Year

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## Major Additional Requirements
- University degree
- Specific university courses
- Examination board (SHV-lautakunta)
- Actuarial work experience: 1-Year
Major Additional Requirements

- Bachelor of Science Programme
- Master’s Degree Programme
  - example in Stochastics
- At least 1 year work experience
- Specific university courses
  - Life insurance mathematics
  - Risk theory
  - Probability theory
  - Statistics and stochastics
  - Two optional courses (mathematical statistics, stochastic processes, …)
- Exams for the Examination Board
Exams for the Examination Board

- **Exams**
  - Accounting
    - Practical test, Accounting regulation, Financing
  - Insurance Regulation, e.g.
    - Act on Insurance Companies, Act on Insurance Agreements, Act on Financial Supervisory Authority
    - Delegated Regulations, Guidelines (EU-wide)
    - Code of Ethics
  - Solvency
    - Cash flow modelling, ERM
    - Solvency Regulations, Guidelines (EU-wide)
  - Applied Mathematics
    - Common Learning Area
      - Rating, Statistical modelling, Mortality and Morbidity Models, Claim Reserving
    - One Optional Specialty Area
      - Life Insurance
      - Non-Life Insurance
      - Pension Insurance

- **Thesis**
Continuous Professional Development

- The ordinary members of the Association shall maintain their professional knowledge while carrying out actuarial tasks.
- All education is free for members.
  - Two big seminars annually
  - Six regular shorter lessons
  - Cooperation with the university
- Recommendation for minimum CPD
- Platform to follow CPD points
Quality Assurance

- Education Committee in cooperation
  - with universities
  - with the examination board
- Examination Board
  - Tests the quality of the education through exams
- Continuous development education complements the basic education