

Society of Actuaries in Ireland

Society of Actuaries in Ireland Seminar for New Students

11th October 2016

Housekeeping

- Please ensure that your mobiles are switched off.
- Please note the fire exits in the room.
- If you haven't signed the Attendance Sheet, please do so at the coffee break.

Session	Speaker(s)
Welcome & Introductions	Sarah Kelly, FSAI, Chairman, SAI Recent Qualifiers Committee
The Road to Qualification - an Introduction to the Institute & Faculty of Actuaries + Questions & Answers	Tim Birse, Institute & Faculty of Actuaries - Immediate Past-Chair, Education Board and Chair of the Curriculum Task and Finish Group
Overview of the different practice areas as an Actuary	Sarah Kelly, FSAI; John Moran, FSAI and Aoife O'Brien, FSAI
Coffee Break	
 Life as a Student Actuary: How to study and pass the exams Work Based Skills including a Q & A Session Student Activities - introduction to the Student Committee 	Sarah Keane and Louise Gallen, Joint Chairs SAI Students Committee
Role of the Society & Welcome to the Society of Actuaries in Ireland	Dervia Tomlin , FSAI, President of the Society of Actuaries in Ireland
Summary & Close	Sarah Kelly
Drinks reception & finger food	Hosted by the SAI President, Dervla Tomlin





GUIDE FOR STUDENT ACTUARIES IN IRELAND

SSUED: OCTOBER 2013

https://web.actuaries.ie/students/guide



IFoA 2019 Curriculum Society of Actuaries in Ireland 11 October 2016

Tim Birse – Leader of Implementation Group

Background

- The last major IFoA Education changes were introduced in 2005
- The nature of the work of actuaries has changed
- The IAA is introducing new Core Syllabus standards which the IFoA must meet
- IFoA Council approved curriculum structure and draft syllabuses in June 2016
- Implementation "Task and Finish" Group to make it happen

Why undertake a review?

- Ensure actuaries who qualify with the IFoA remain 'fit for purpose' over the next ten to fifteen years.
- Ensure members of the IFoA are equipped to fulfil wider roles in more diverse areas of work.
- Maintain the IFoA's reputation internationally by ensuring our qualification structure is up-to-date with the current issues facing actuaries world-wide.



What should the review accomplish?

- Content of subjects remains cutting edge and relevant
- Outdated, less relevant and duplicated material removed
- Balance between technical and softer skills and between principles and practice
- Focus on assessing understanding and competence
- rather than the ability to regurgitate knowledge
- Use of modern assessment techniques moving away from a written examination where appropriate.



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Curriculum 2019

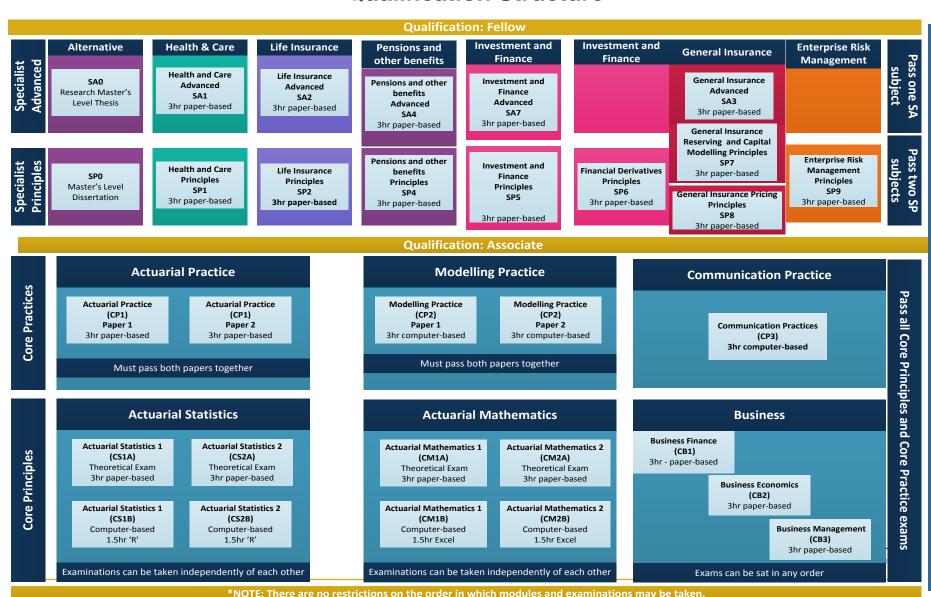
- Contemporary material
- Coherent study areas
- Focus on competency
- On-line assessment
- Work Based Skills replaced by Personal and Professional Development
- PPD mirrors CPD
- Presentation skills to PPD
- International applicability
- UK-centric material moves to practice modules



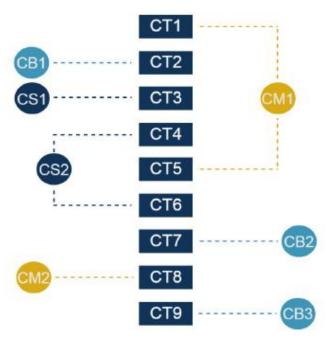
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IFoA Curriculum 2019 Qualification Structure



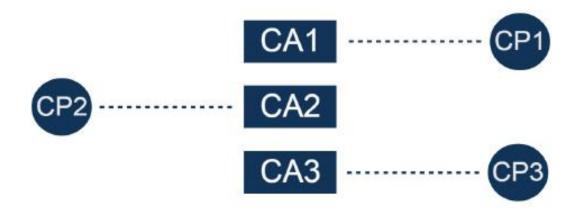
Curriculum 2019 – Core Principles



Subject under New Curriculum	Subject under Old Curriculum
CS1 (Actuarial Statistics 1)	CT3
CS2 (Actuarial Statistics 2)	CT4 and CT6
CM1 (Actuarial Mathematics 1)	CT1 and CT5
CM2 (Actuarial Mathematics 2)	CT8
CB1 (Business Finance)	CT2
CB2 (Business Economics)	CT7
CB3 (Business Management)	CT9



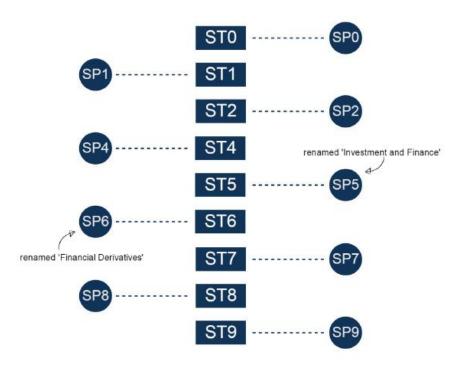
Curriculum 2019 - Core Practices



Subject under New Curriculum	Subject under Old Curriculum
CP1 (Actuarial Practice)	CA1
CP2 (Modelling Practice)	CA2
CP3 (Communication Practice)	CA3



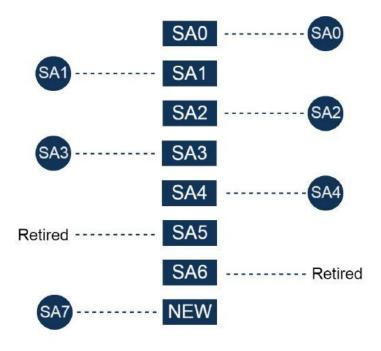
Curriculum 2019 — Specialist Principles



Subject under New Curriculum	Subject under Old Curriculum
SP0 (Master's Level Thesis)	ST0
SP1 (Health and Care)	ST1
SP2 (Life Insurance)	ST2
SP4 (Pensions)	ST4
SP5 (Investment & Finance)	ST5
SP6 (Financial Derivatives)	ST6
SP7 (General Insurance: Reserving)	ST7
SP8 (General Insurance: Pricing)	ST8
SP9 (Enterprise Risk Management)	ST9



Curriculum 2019 - Specialist Advanced



Subject under New Curriculum	Subject under Old Curriculum
SA0 (Research Master's Level Thesis)	SA0
SA1 (Health and Care)	SA1
SA2 (Life Insurance)	SA2
SA3 (General Insurance)	SA3
SA4 (Pensions)	SA4
NI/A	SA5
N/A	SA6
SA7 (Investment & Finance)	N/A



Transferring to Curriculum 2019

- Passes from the current curriculum must have been achieved by 31 December 2018.
- Exemptions from the current curriculum must have been achieved by 01 February 2019 (not applicable to students on accredited courses).
- Where appropriate, both parts of Curriculum 2019 exams must either be passed or exempted; otherwise the full new subject must be taken.



Questions

Comments

Expressions of individual views by members of the Institute and Faculty of Actuaries and its staff are encouraged.

The views expressed in this presentation are those of the presenter.



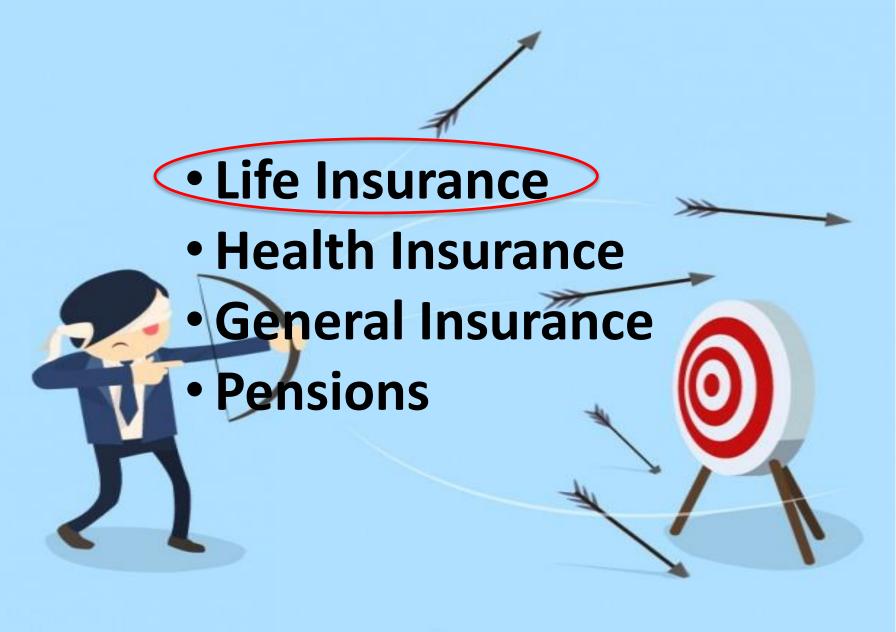
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Society of Actuaries in Ireland

Overview of different practice areas

11th October 2016





Market overview

- Domestic market
 - 12 life companies









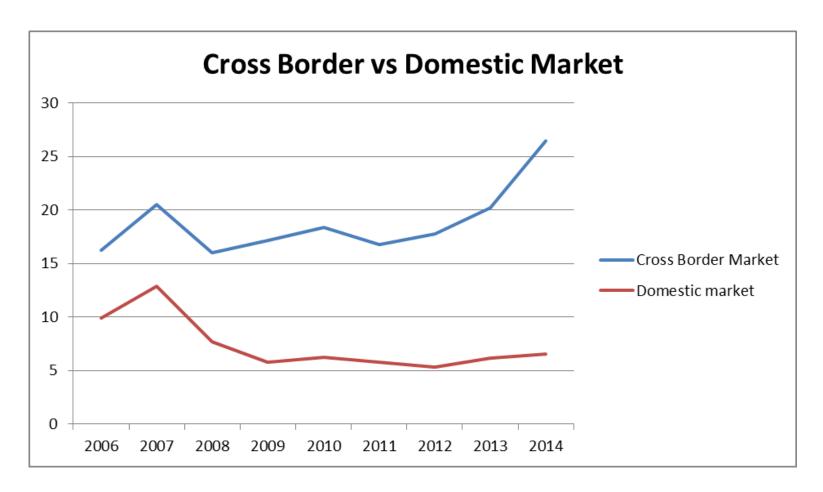




- Cross-border market
 - c.57 life companies
 - Including: Aegon, Allianz, AXA, Generali, Intesa Sanpaolo,
 MetLife, SEB, Standard Life International, ... Zurich
 - c.110 reinsurance companies and SPVs (includes non-life)



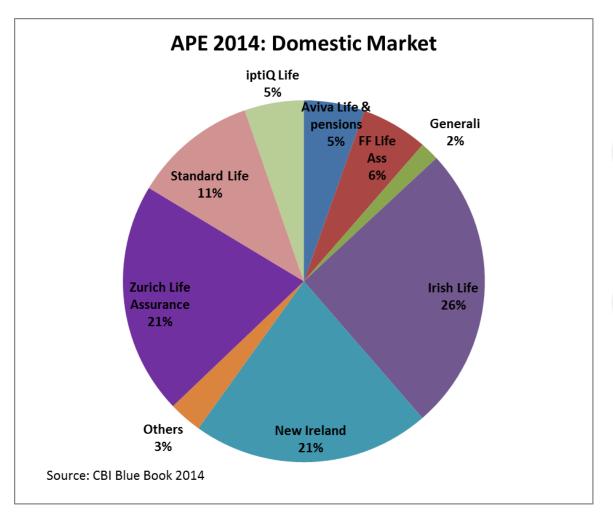
Market overview – New Business Premiums



Source: 2014 and older Blue Books (CBI Insurance Statistics)



Market overview - Domestic Premiums



Annual Premium Equivalent (APE) = AP + 0.1 * SP

Market dominated by a few players

What's it like?

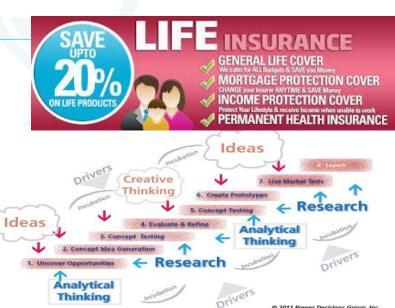


Life insurance – Different Areas

Reporting

2015 Interim Results

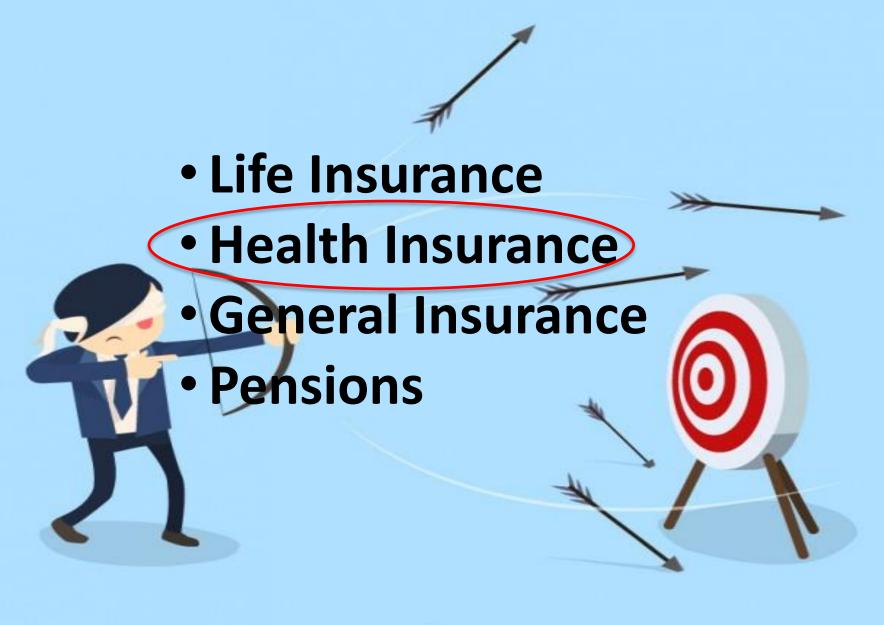




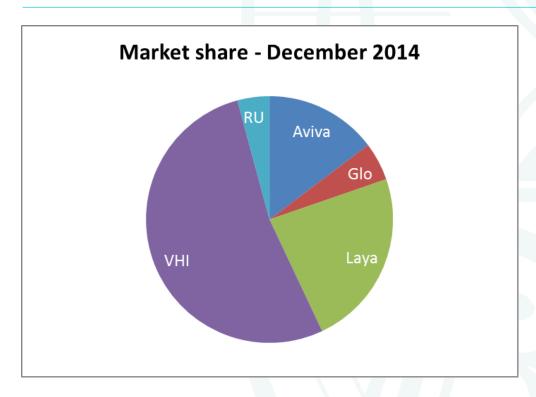
Pricing & Product Development







Domestic Health Market



Market Evolution

VHI – original statutory body Laya (then Quinn) joined in 90s ending monopoly Aviva (then Vivas) entered in 2004 GloHealth is a player since 2012

Developments & Partnerships

VHI - a regulated entity since July 31st 2015

Laya taken over by AIG in Jan 2015

Irish Life Group acquire GloHealth & Aviva Health - new Irish Life Health (July 2016)



PENSION PROVISION

- Self Employed / Additional needs
- Pre-funded by individual

PRIVATE PENSION

- Maintain standard of living
- Pre-funded
- Employer and Employee

OCCUPATIONAL PENSION

- Minimum level of income for all in retirement
- Pay-as-you-go
- Taxation



OCCUPATIONAL PENSION SCHEMES – DB

Defined Benefit (DB)

- Set level of pension and/or lump sum at retirement
- The level of benefits depends on your service in the scheme and salary at retirement
- Private sector:
 - pension of 1/60th of salary for every year of service to a maximum of 40/60ths.

Responsibilities:

- Producing annual accounting disclosures & reports
- Regular calculation of pension scheme solvencies
- Funding proposal calculation
- Scheme Wind Up.....

OCCUPATIONAL PENSION SCHEMES – DC

Defined Contribution (DC)

- Employee contribution and the contribution paid by your employer are usually fixed % salary
- Contributions invested in a fund
- No guarantees
- Benefits at retirement will depend on a number of different factors:
 - contribution levels
 - fund performance
 - plan charges
 - Annuity rates available when you retire
- Hybrid schemes combine characteristics of both

Key external groups involved in an occupational pension scheme



Topics Dominating Pension Scheme Discussions CURRENTLY



Supplementary pension provision in Ireland (as at 31 December 2015)

- Defined benefit
- 715 schemes subject to the Funding Standard with 125,955 members (€58bn)
- 99 Unfunded PAYG schemes with 339,155 Public Service members
- Defined contribution
- 67,125 schemes with 281,629 members (€37bn)
- Personal Retirement Savings Accounts (PRSAs)
- 237,608 PRSA contracts (€5bn)
- Personal Pension Plans/Retirement Annuity Contracts (RACs)
- 200,000 + contracts

PENSIONS LANDSCAPE

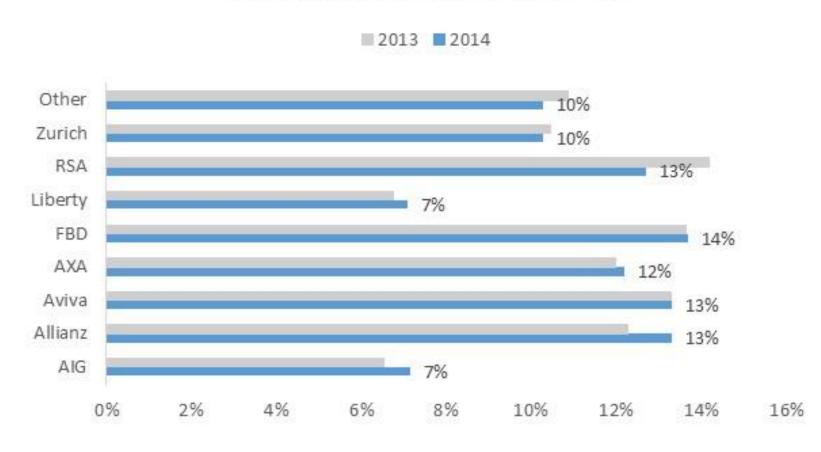
Occupational Pension Schemes	Schemes	Members
DC	67,125	281,629
DB	814	465,110
PRSAs	Products	Contributors
Std/Non Std	131	237,608
Total	68,070	984,347
PRSA	S	
Defin Contr	ed ribution	
Conti	ibution	
Defin	ed Benefit	





Distribution of market share

Non Life Market Share (GWP %)



Range of GI Product Types

Personal Lines

- Private Motor
- Household
- Personal Accident
- Travel

Commercial Lines

- Fire
- Commercial Motor
- Liability
- Marine and Aviation



What does a GI actuary do?

Pricing

- Generalized Linear Models (GLMs)

Reserving

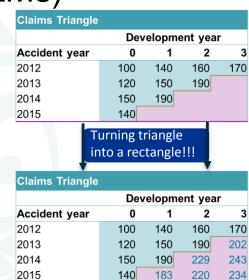
- Run-off Triangles

Capital Modelling

- Economic capital assessment

Risk

- Identifying, measuring and monitoring risk





Current topics

Uncertain Claims Environment













Current topics

Periodic Payment Orders (PPOs)

- Annual payment rather than lump sum
- Transfers risk from claimant to insurer

Data Analytics

- Machine Learning
- Opening new market opportunities
- Rethinking products
- Telematics



Society of Actuaries in Ireland

COFFEE BREAK



Society of Actuaries in Ireland

Life as a Student Actuary: How to Study and Pass the Exams

SAI Seminar for New Students, 11th October 2016

Louise Gallen

Joint Chairperson of the Student Society Committee

Overview – How to Study and Pass the Actuarial Exams

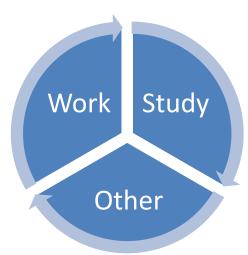
- Working & Studying
- Planning your Exam Route
- Study Materials & Tutorials
- Planning your Study
- Study & Exam Tips
- After the Exams
- Questions





Working & Studying

- Working and studying is hard!
 - Different to college
 - Less free time / self-taught / difficult material
- Balancing work, study and other commitments
 - Exam sittings in April and October
 - Work objectives
 - Work-Based Skills
- Managing your time effectively
- Being productive





Planning your Exam Route

Core Technical: Exam x9 (& Professional Awareness Test)

Core Applications:

- Exam x1

- Course x2

Specialist Technical:

- Exam x2

(choose from 9)

Specialist Application:

- Exam x1

(choose from 6)

- Exemptions
- Order of completion
 - Exam timetable
 - Student handbook
- Choose ST's and SA
 - Consult senior students / qualified actuaries



Study Materials

Combined
Materials Pack
(CMP)

• Study Guide

- Course Notes (Core Reading & additional explination)
- Question and Answer Bank
- Assignments

Additional Resources:

- ASET (ActEd Solutions with Exam Technique)
- Revision Booklets
- Flash-cards
- Sound Revision
- Mock Exams
- The Actuarial Education Company (ActEd)
 - Produce study material for IFoA students
 - www.acted.co.uk



ActEd Tutorials

- Types of Tutorial
 - Regular / Block
 - Face-to-face / Online
- Arrive Prepared
 - Assume material understood
- What's Covered?
 - Difficult topics explained
 - Exam style questions
 - Exam technique



Recommended Study

CT 1 -8

(125 - 150)

Hours)

Professional Awareness Course

(1-5 Hours)

(20 Hours & 2 **Day Course)**

CT9

CA₁

(400 Hours)

CA2

(100 Hours)

CA₃

(50 Hours)

ST Exams

(200 Hours)

SA Exams

(300 Hours)



Study Timetable

- Planning your study
 - Start early!
 - Study leave allowance
 - Busy periods in work
 - Holidays / Hobbies / Other commitments
 - Unexpected events

Study timetable

- Weekly targets
- Deadlines: Tutorials / Assignment submission
- Leave time for past paper practice & revision



Study Tips

- Suitable place to study
 - Join a library / study in the office
 - Utilse your commute
- Familiarise yourself with the Core Reading
- Spend time understanding the concepts
- Leave time for revision
- For some exams, read around the subject
 - The Actuary Magazine, the Financial Times etc.
- Practise, Practise Exam Questions!
 - ASET, Revision Booklets, Past Papers on IFoA Website, Tutorial Q's
- Do questions under exam conditions



Exam Day

- Plan your journey
 - Leave time for delays
- Have the right materials
 - Exam permit, ID, correct calculator etc.
- Read the instructions carefully
- 15 minutes reading time
 - Read the questions
 - Work out timings
 - Make notes (not in answer booklet)
 - Decide on question order



Exam Tips

- Time management
 - 1.8 minutes per mark
 - Plan your answers
 - No choice on the day
- Answer the question being asked
 - Question word: List / Describe / Discuss
 - Number of marks
 - Answer all parts of question
- Make your paper easy to correct
 - Label parts of answers clearly
 - Legible writing





After the Exam

- No exam post-mortems
- Enjoy yourself take a break
- Plan what to do next
- Failure is, unfortunately, common
 - Focus on positives
 - Reassess your preparations
 - Talk to senior students / recently qualified actuaries
 - Exam counselling
- Don't give up!



Questions?





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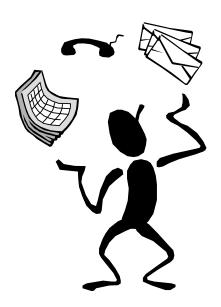
Work Based Skills

SAI Seminar for New Students, 11th October 2016

Sarah Keane
Co-Chair of the Student Society Committee

Overview – Work Based Skills

- What are Work Based Skills (WBS)?
- What do you need to do?
- When should you do it?
- Questions





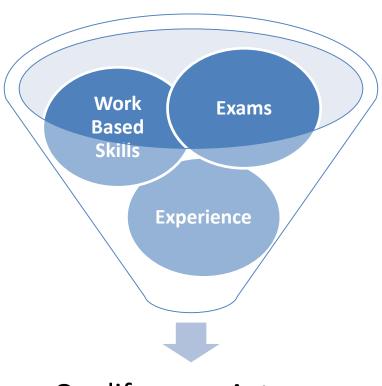
What are Work Based Skills?

- Recording of actuarial skills acquired through relevant work experience ("learning logs")
- Actuaries need:
 - Professional judgement
 - Actuarial expertise
 - Business and commercial acumen
 - Communication skills
- WBS demonstrates you have successfully developed in these areas





Requirement for Associateship or Fellowship Qualification



Qualify as an Actuary



What You Need To Do?

High Level View:

- Amount of WBS & experience depends on the qualification sought
 - ☐ Associate **1 year** minimum
 - ☐ Fellow **3 years** minimum
- Complete WBS up until apply to Transfer to the Class of Associate or Fellow.



Step 1: Accreditation Program

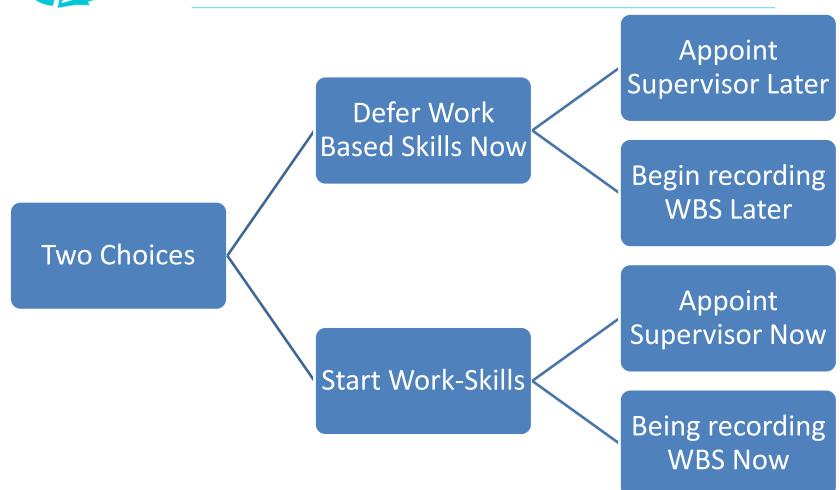
Does your employer have an accredited program?

Yes: Follow your employer's guidelines

No: Follow the IFoA's WBS guidelines



Step 2: Appoint Supervisor or Defer WBS





Defer WBS / Appoint Supervisor

Discuss with your employer

Fill out WBS Supervisor Identification Form & Submit to the IFoA

State your intention to Defer WBS

Appoint your WBS Supervisor

Must do before registering for exams



Who Can be Your Supervisor?

- Typically a qualified actuary in your firm
 - Can be a non-actuary or senior student
 - Ultimate sign-off must be by a Fellow
- Discuss with your employer who should be your supervisor
 - Usually the person who evaluates your annual performance



Step 3: Completing your Learning Logs

- Complete Learning Log
 - Self Assessment of Skills Developed with Evidence
 - Formal Learning Activities Undertaken
- Consider Review Questions
 - Typical questions on the IFoA's website
- Need to cover key dimensions





Seven Key Dimensions

Technical
Application of
Actuarial Skills

Judgement

Professional and Ethical

Communication

Commercial

ICT

Management



Step 4: The Review Process

Meet with supervisor regularly to discuss progress (Ideally every 6 months)

Supervisor should sign off on learning logs following each meeting (once satisfied)

Submit logs to
IFoA upon
completing exams
(fee applicable)



Fellowship Minimum Requirements

If you wish to qualify as a Fellow:

- You will need to cover all seven key dimensions in your discussion and learning logs
- You will also need to answer a minimum of twelve review questions
 - At least one per dimension
 - -500 1,000 words in length
 - Commercially sensitive answers can be held back or summarised
- You will also need to have undertaken a minimum of 30 hours formal learning activity



Associateship Minimum Requirements

If you wish to qualify as an Associate:

- You will need to cover four key dimensions in your discussion and learning logs
 - Technical Application of Actuarial Skills
 - Professional & Ethical
 - Communication
 - Commercial
- Answer at least one review question per dimension
- A minimum of 10 hours formal learning activity



Problems with Leaving WBS to the Last Minute

- Time consuming to complete at once
 - At least 6 learning logs and over 12 review questions to do all at once
- Difficult to remember work completed
 - Can you remember what work you did more than three years ago?
 - What training courses did you do and when?
- Difficult to get Supervisor Input & Sign-off
 - You or your supervisor may have moved company or country
 - Difficult for supervisor to remember what work you did
- Delay Transfer to Class of Fellow or Associate



WBS – Further Sources of Information

- Institute and Faculty of Actuaries
 - Website
- Society of Actuaries
 - Guide for Student Actuaries in Ireland
- Employer / Senior Students / Recently Qualified





Conclusion – Work Based Skills

- Ensures you gain appropriate experience in developing your actuarial skills
- Involves regularly completing learning logs
- Obtaining review from your supervisor
- Failing to complete WBS regularly can delay transfer to the class of Associate or Fellow



Questions?





Society of Actuaries in Ireland

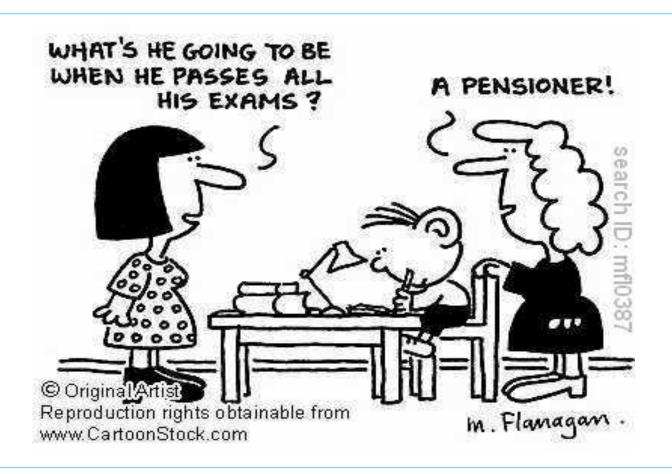
Introduction to the Student Committee Sarah Keane

11/10/2016
Co-Chair of the Student Society Committee

Agenda

- Life as a Student Actuary
- The Student Society
- The Student Committee
- Website
- Student Travel Card
- Student Consultative Forum

Life as a Student Actuary



The Student Society

- Represents students
- Run by a committee consisting of student members
- Automatic membership once you join Society
- Meet other students & friends from college
- Networking & career development
- Email & Web updates
- Help & Advice



The Student Committee



- Organises social and educational events
- Past Events:
 - The Laughter Lounge
 - Cocktail Making
 - The Races
 - Summer BBQ

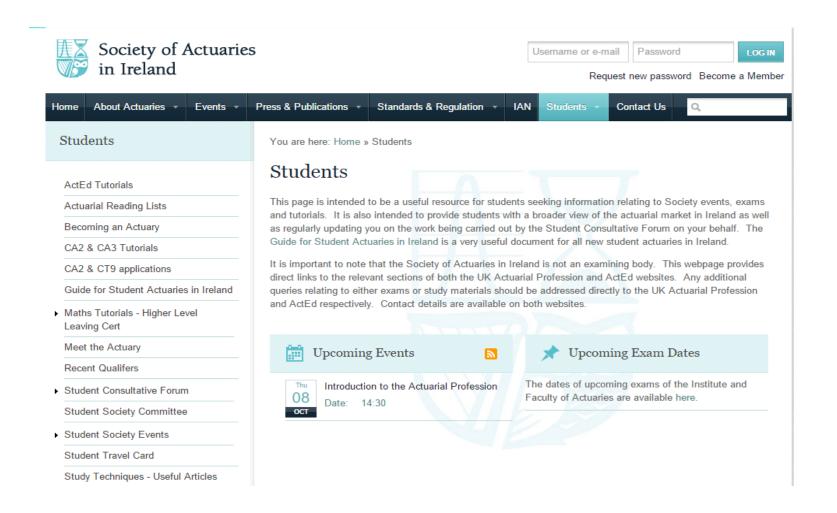








www.actuaries.ie/students



Student Travel Card

- Actuarial students are eligible for the Student Travel Card each year until qualification
- Discounts on rail travel and many shops

 Available in the Student Union Office in Trinity College Dublin

Further details

http://www.studentleapcard.ie/



Student Consultative Forum

- Meets twice a year in the UK to discuss student issues.
- Prior to the forum, the Society's representative emails all Society students to check for exam issues
- After the forum, a report is provided covering matters of particular interest to Irish students
- Following discussions with the Student Consultative Forum, eligibility criteria for CA2 exam removed
- The current SAI representative is Patrick Byrne

Summary

- Get involved in the Student Society
- Attend the events
- Obtain Student Travel Card
- Keep up to date by visiting Society website and Student Society Facebook page

https://www.facebook.com/StudentSocietyofActuariesIreland

- Get in touch with any queries
- Go to <u>Member Directory</u> or email <u>info@actuaries.ie</u>





Society of Actuaries in Ireland

Welcome to the Society of Actuaries in Ireland

11th October 2016

What is a profession?

- A paid occupation, especially one that involves prolonged training and a formal qualification.
- Professionals exercise specialist knowledge and skill.
- Professionals are capable of making judgments, applying their skills, and reaching informed decisions in situations that the general public cannot because they have not attained the necessary knowledge and skill.
- Professional ethics govern the use of this specialist knowledge when providing a service to the public.

Society of Actuaries in Ireland - mission

- Develop, maintain and enforce actuarial standards that require actuaries to advise their clients with integrity, professionalism and objectivity
- Develop the role and standing of the actuarial profession in Ireland and enhance its reputation
- Support actuaries throughout their career so that they have the skills, attributes and knowledge appropriate to both current and future needs of actuarial practice



Add value

For customers and shareholders

- Deep understanding of business
 - clear and comprehensive communication
- Value chain

Get things done – your way

Say yes to opportunities

- Try new things. Keep on learning!
- Don't take a narrow view of opportunities
- Don't be pigeon holed (don't pigeon hole others)
- Career progression isn't usually a straight line.

Be resilient

- Work and career setbacks happen
- Keep the bumps along the road in perspective
- Ask for help
- What can I change?

'Grant me the serenity to accept the things I cannot change, the courage to change the things I can and the wisdom to know the difference'

Be happy!



Society of Actuaries in Ireland

SUMMARY AND CLOSE