

CPRE - Certified Professional for Requirements Engineering



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at JFIE 2018

International Requirements Engineering Board (IREB)

Members of the board:

- Personal board members: Renown experts from industry, research, consulting and education
- Associate Members: Committed persons in the field of RE

See <http://www.ireb.org/about/persons/>

Activities of the board

- Elaboration of the curriculum, glossary and exams for the „Certified Professional for Requirements Engineering“
- Translations of the artifacts in many languages, e.g. Chinese (Mandarin), Dutch, English, French, German, Italian, Polish, Spanish, Swedish, Russian, Portuguese (Brazil)
- Publishing of articles, textbooks and references

Operating Company of the IREB e.V.

- **Facts**

- Since April 1st, 2011
- 100% owned by the IREB e.V.

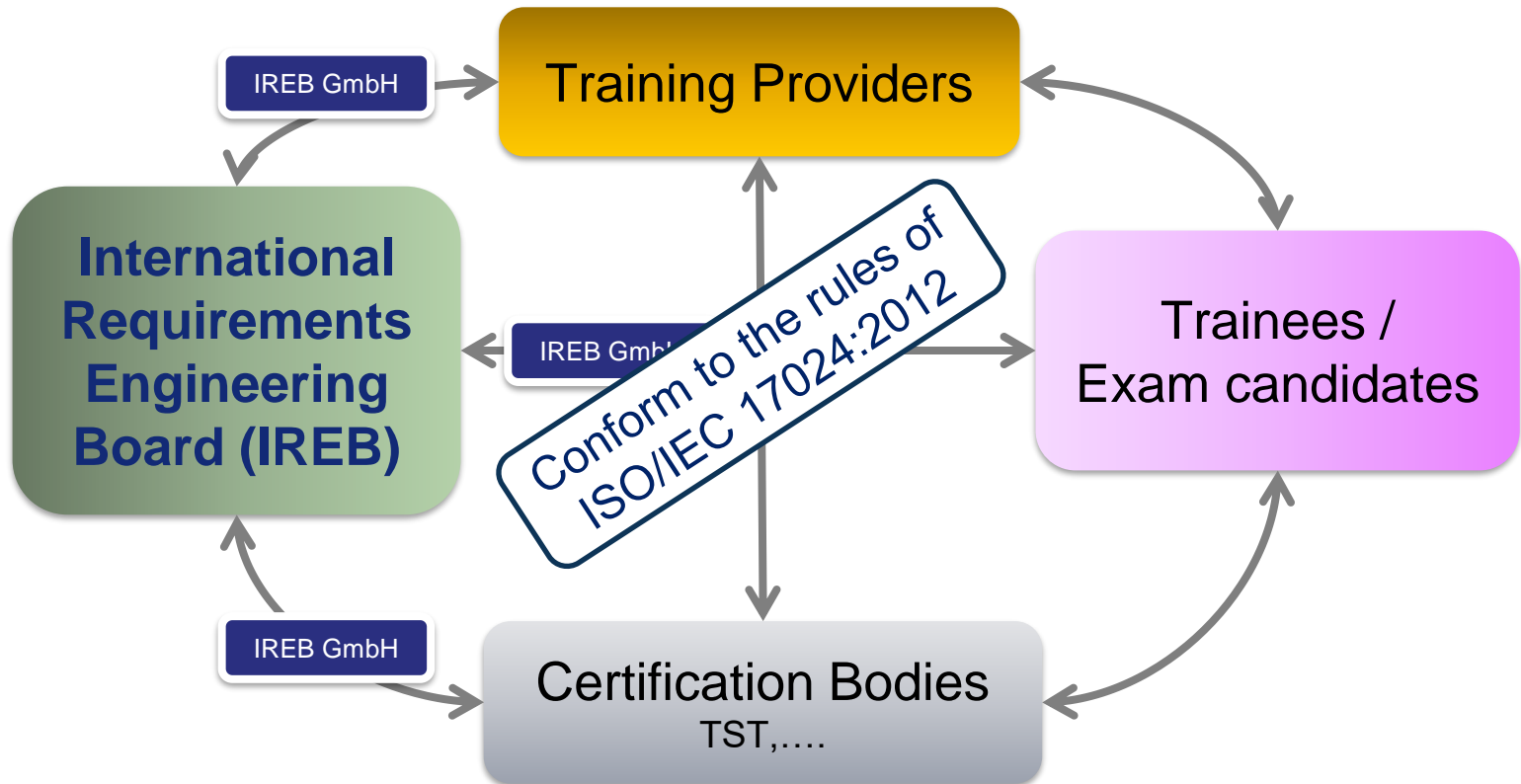
- **Activities**

- Organizational support for the board, workgroups and supporting members
- Coordination of IREB tasks such as
 - Elaboration of the curriculum and the exam questions for the CPRE
 - Coordination and organization of training providers and certification bodies
 - Marketing of the CPRE certificates
 - Press and media releases
 - Publishing of articles

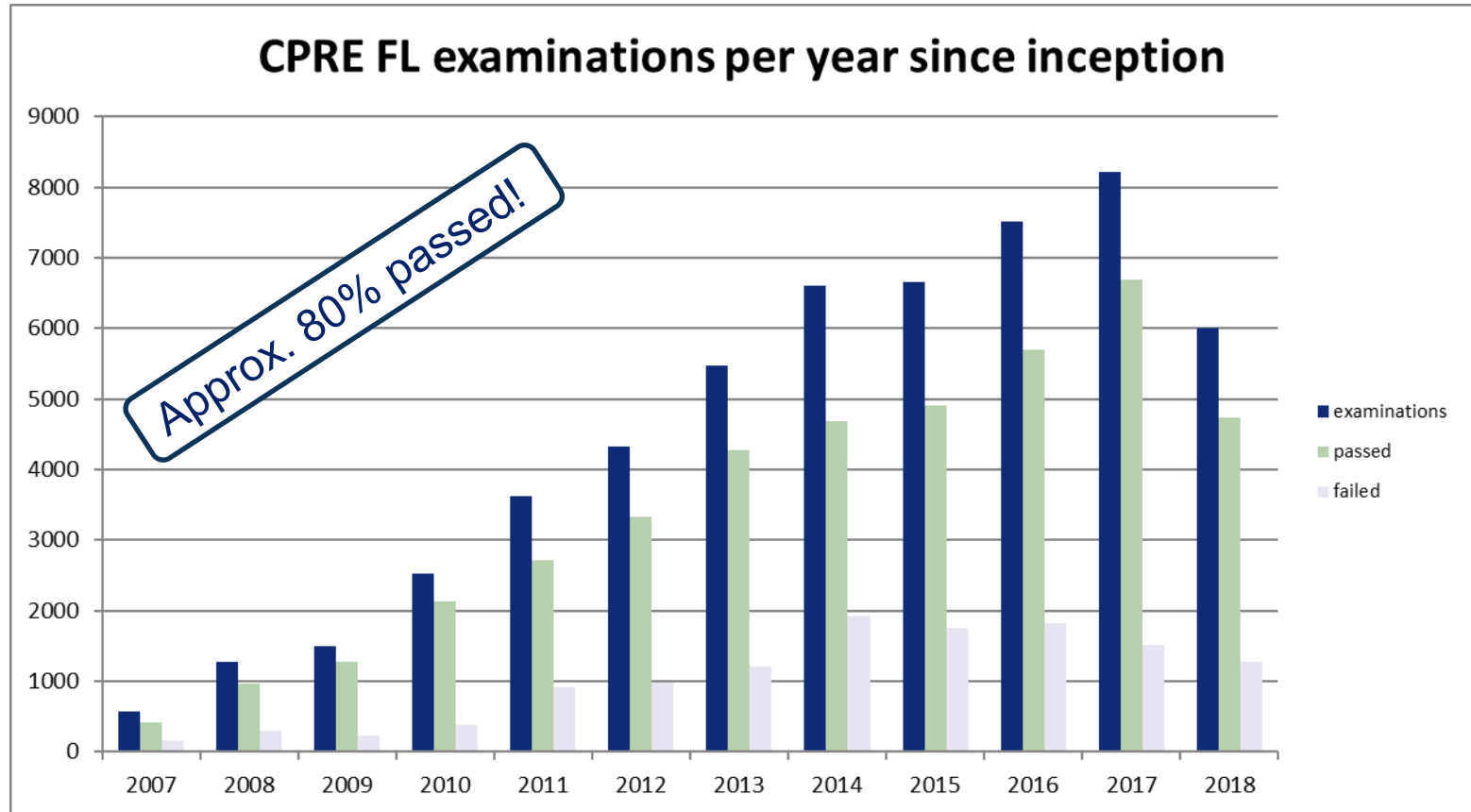


Stefan Sturm
Managing Director IREB GmbH

The principles of the certification



Allocation of tasks to clearly separated and independent organizations ensures fairness and neutrality.

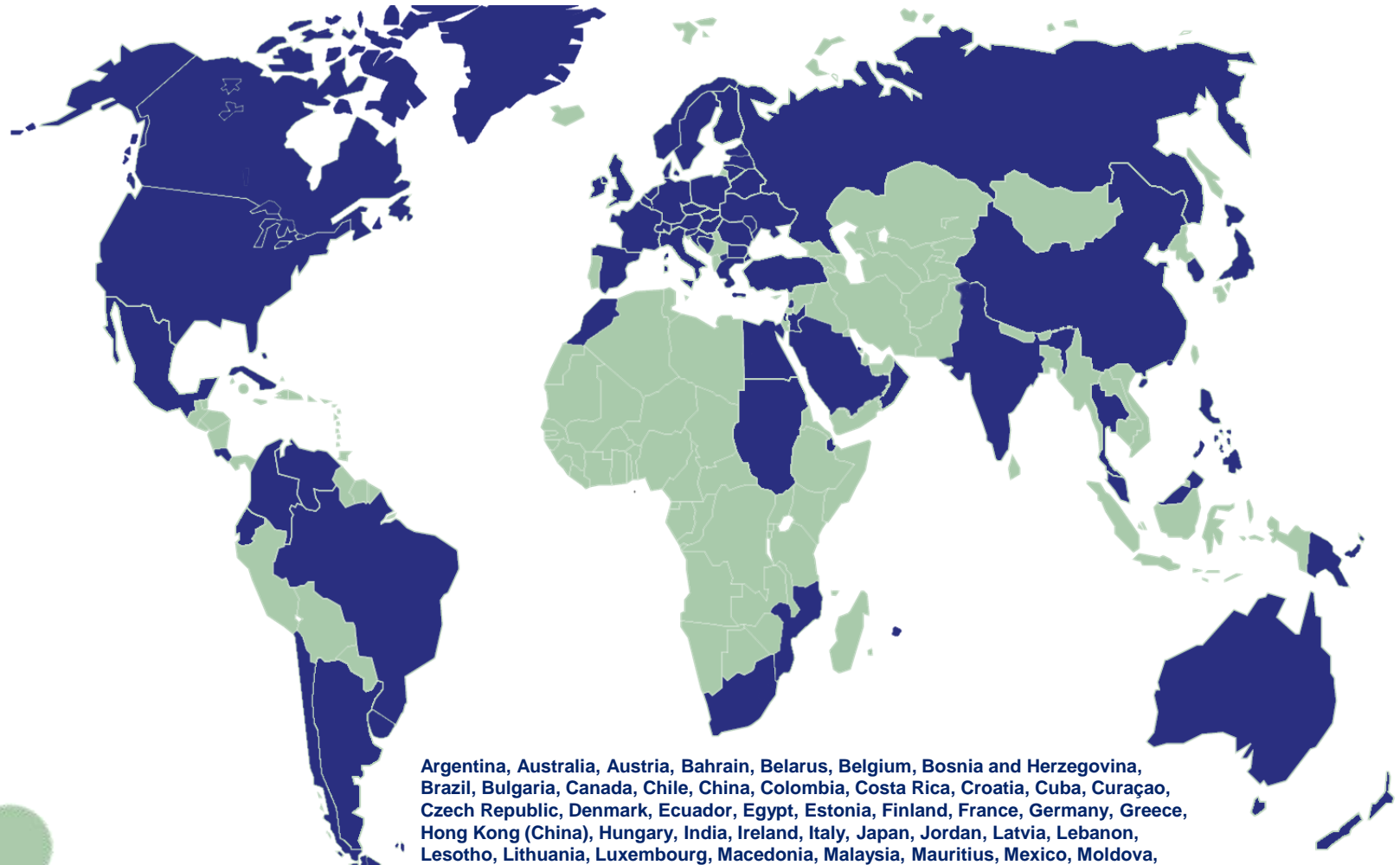


2018 Jan-Sept only

Over 54,000 Examinees in total – worldwide!

The CPRE

Worldwide in 77 countries



Argentina, Australia, Austria, Bahrain, Belarus, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cuba, Curaçao, Czech Republic, Denmark, Ecuador, Egypt, Estonia, Finland, France, Germany, Greece, Hong Kong (China), Hungary, India, Ireland, Italy, Japan, Jordan, Latvia, Lebanon, Lesotho, Lithuania, Luxembourg, Macedonia, Malaysia, Mauritius, Mexico, Moldova, Morocco, Mozambique, Netherlands, New Zealand, Norway, Oman, Palestine, Papua New Guinea, Peru, Philippines, Poland, Romania, Russian Federation, Saudi Arabia, Serbia, Singapore, Sint Maarten, Slovakia, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Sudan, Sweden, Switzerland, Thailand, Turkey, Ukraine, United Arab Emirates, United Kingdom, Uruguay, USA, Venezuela

Certified Professional for Requirements Engineering

Personal certificate for requirements engineering

- not time limited

Three step certification program

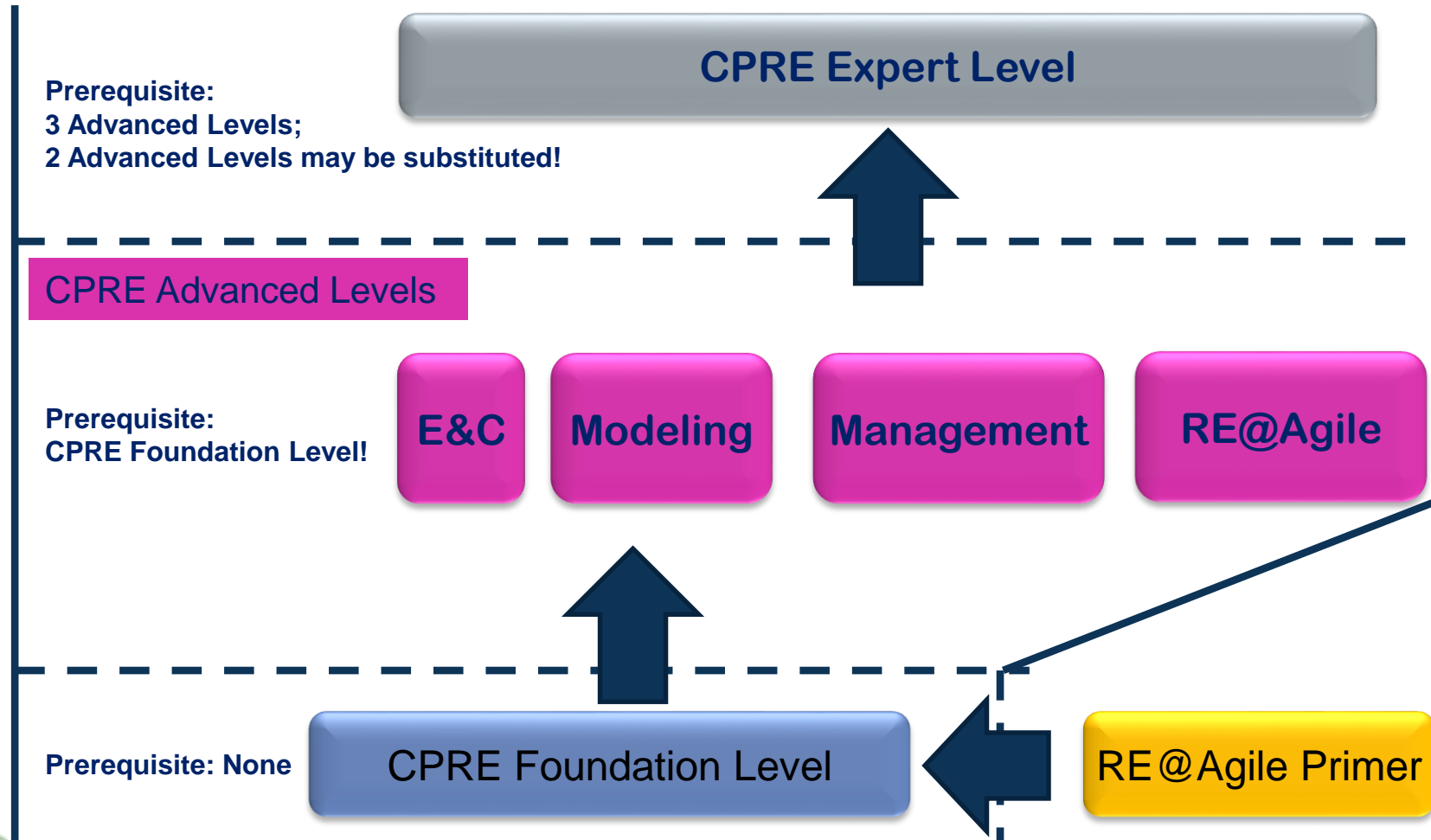
- Foundation Level 
- Advanced Level 
- Expert Level 

CPRE Foundation Level

accessible to everyone, as there are no prerequisites

The CPRE

Three level certification program



**Most important education in RE worldwide –
besides the university education!**

Fundamental understanding of RE

Languages

- Chinese (Mandarin), Dutch, English, French, German, Italian, Polish, Portuguese (Brazil), Spanish, Swedish and Russian

No prerequisites!

Companion Books

- Books available in Dutch, English, German, Portuguese (Brazil), Chinese (Mandarin), French in preparation

Multiple choice exam

Foundation Level - Topics



1. Introduction and Foundations
2. System and System Context
3. Requirements Elicitation
4. Requirements Documentation
5. Documentation of Requirements using Natural Language
6. Model-based Documentation of Requirements
7. Requirements validation and negotiation
8. Requirements Management
9. Tool Support



CPRE Foundation Level

- Multiple choice test ~ 45 questions
- 75 minutes plus 15 minutes extension for non native speakers
- 70.00% of the total point required to pass



- Become familiar with the relevant terminology of Requirements Engineering and Agile approaches;
- Understand the role and importance of Requirements Engineering in Agile processes as well as the value of agility in Requirements Engineering
- Learn how to select the right activities at the right time to ensure high quality requirements before they are to be implemented.
- No prerequisites!



- RE@AGILE ® is the vision to link the two worlds of Requirements Engineering and Agile.
- RE@AGILE ® is the future perspective for REs, BAs and CPREs in an Agile Context.
- RE@AGILE ® transfers a proven tool set for RE into the Agile world in order to improve Agile development and make it more sustainable.



CPRE RE@Agile Primer

- Certification exam:
 - Multiple choice test ~ 22 questions
 - 45 minutes plus 10 minutes extension for non native speakers
 - Certificate for successful candidates
- Online self assessment
 - Available on the IREB website
 - 30 minutes
 - Multiple choice test, 16 questions
 - No certificate! PDF confirmation of participation for download upon successful completion

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Independent Modules

- Requirements Elicitation & Consolidation
Major update end of 2018
- Requirements Modeling
- Requirements Management
- RE@Agile

Languages

- Requirements Elicitation & Consolidation: English and German
- Requirements Modeling: English and German
- Requirements Management: German, English in 2019
- RE@Agile: English and German

Prerequisite

- CPRE Foundation Level certificate

Requirements Elicitation & Consolidation

- Skills of the requirements engineer in the field of elicitation and consolidation
- Requirements sources
- Elicitation techniques
- Consolidation techniques

Currently major revision on-going. Launch of new version end of 2018

Requirements Modeling

- Basic Principles of Requirements Modeling: Why, where, basics
- Context Modeling in RE
- Information Structure View
- Dynamic View
- Scenario Modeling in RE

Requirements Management

- Definition of Requirements Management
- Requirements Information Model
- Attributes and Views
- Rating and prioritization
- Versioning and changing
- Traceability
- Variant Management
- Reporting
- Management of RE processes
- RE management in agile processes
- RE management tools

RE@Agile

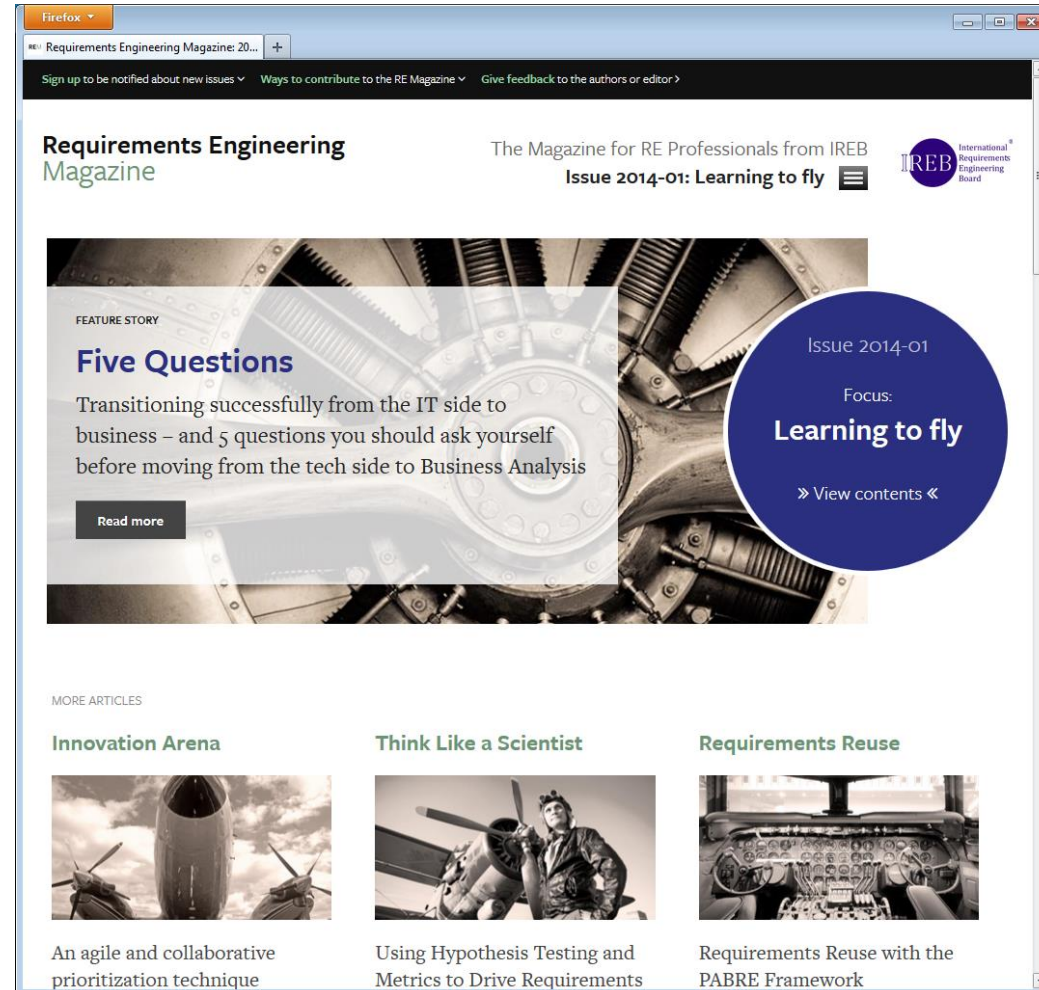
- What is RE@Agile
- Visions and Goals, Stakeholders, and Scope
- In an agile context:
 - Elicit functional requirements
 - Elicit quality requirements (non-functional requirements)
 - Prioritizing and Estimating Requirements
 - Scaling of RE and development

CPRE Advanced Level

- Part 1: multiple choice test
 - 75 minutes plus 15 minutes extension for non native speakers
 - 60% of the total point required to pass
- Part 2: written assignment within 1 year after part 1

Each Advanced Level module has its own exam and certificate!

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www.ireb.org

<http://re-magazine.ireb.org>