

International workshop on Quality Labels 13 February 2012 Role and impact of quality labels in engineering education. The example of the EUR-ACE label

Presentation of ENAEE and the

EUR-ACE system

by

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Engineering is a "global" profession: hence, trans-national recognition is essential.

In 1989, eight National Engineers' professional organizations started the so-called

Washington Accord

that, as of 2011, has 14 signatories and 6 "provisional members"

In the Washington Accord,

"qualifications accredited or recognised by other signatories are recognised by each signatory as being substantially equivalent to accredited or recognised qualifications within its own jurisdiction"

No similar initiative in Europe up to 2004.

European engineering graduates encounter significant difficulties in recognition of academic and professional qualifications, and consequently in trans-national mobility.

Lack of a European accreditation system of engineering education accepted on the continental scale.

To fill this lack was (and is) the basic motivation of the whole EUR-ACE exercise, started in 2004: in these seven years significant results have been achieved.

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EUR-ACE®

The EUR-ACE accreditation system was envisaged by the EU-supported EUR-ACE project (2004-06) to make up for the lack of a European accreditation system of engineering education accepted on the continental scale.

To implement the EUR-ACE system, the European Network for Accreditation of Engineering Education (ENAEE) www.enaee.eu was founded in February 2006 by 14 concerned Associations.



ENAEE/EUR-ACE adopt the following definition: Accreditation of an [Engineering] Education Programme

is the result of a process to ensure **suitability of** p**rogramme** as entry route to the [*engineering*] profession, by means of

- Periodic assessment against accepted standards
- Peer review of written and oral information by trained and independent panels including academics and professionals

The "quality" and "relevance" of accredited degrees Is guaranteed at all "levels",

but accreditation refers to education only, not whole formation



EUR-ACE is "**programme** accreditation"; to qualify it better, it can be called "**pre-professional accreditation**"

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2006: Two main outcomes of the EUR-ACE project:

a) a synthesis of existing national Standards:

EUR-ACE Framework Standards for the Accreditation of Engineering Programmes

b) a proposal for the Organization and Management of

the EUR-ACE Accreditation System

The EUR-ACE Standards and all other relevant documents are available on the site of ENAEE www.enaee.eu or www.eur-ace.eu



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EUR-ACE[®] Framework Standards for the Accreditation of Engineering Programmes

The EUR-ACE Framework Standards, compiled as a "synthesis" of existing national Standards, are **outcome-based**, i.e. specify the **Programme** (or Learning) Outcomes to be satisfied. Thus, they describe the abilities that the graduates must achieve but not how these should be taught.

The EUR-ACE Standards:

- Are valid for all branches of engineering and all profiles
- Distinguish between First and Second Cycle programmes, as defined in the European Qualification Frameworks
- Are applicable also to "integrated programmes", i.e. programmes that lead directly to a Second Cycle degree
- Can accommodate national differences of educational and accreditation practice

The EUR-ACE[®] Framework Standards require the Quality Assurance of a programme to include the assessment not only of the Programme Outcomes, but also of all the following items:

- 1. Needs, Objectives and Outcomes;
- 2. Educational Process;
- 3. Resources and Partnerships;
- 4. Assessment of the Educational Process;
- 5. Management System

and for each item specify the criteria to be assessed.



Full text of EUR-ACE® Framework Standards on www.enaee.eu & www.eur-ace.eu

How does the EUR-ACE® accreditation system work?

- National (or Regional) Agencies accredit EE programmes;
- If the Agency satisfies appropriate Quality requirements, and the accredited programmes satisfy the EUR-ACE Framework Standards, ENAEE authorizes the Agency to "add" the EUR-ACE[®] quality label to the national accreditation, thus giving it an international value.
- The EUR-ACE[®] label distinguishes between FIRST CYCLE and SECOND CYCLE DEGREES, in accord with the European Qualification Frameworks.
- "Integrated (long) Programmes" can be awarded the SC label.



The last points underline the consistency of EUR-ACE with the "Bologna" approach, and allow to define it "European Accreditation ..."

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Awarded EUR-ACE labels (as registered by mid-2011):						
Agency	Date auth/n	Countries accr.	FCD	SCD	Total	
ASIIN	Nov.2006	DE, CH	184	150	334	
СТІ	"	FR, BE, BG, ES		229	229	
Eng.Irela	nd "	IE	70	25	95	
RAEE	"	RU, KZ	46	50	96	
EngC	"	UK	4	26	30	
Ord.Eng	**	РТ	0	6	6	
MÜDEK	Jan.2009	TR	111		111	
Overall total:					901	
By the end of 2011, the total number of labels reached 1000						13



As of February 2012, a number of applications from other Agencies that want to be EUR-ACE-authorized have been received and are being considered:

- NVAO (Accreditation Organisation of Netherlands and Flanders)
- KAUT, Accreditation Committee for Technical HE Institutions, Poland
- QUACING, Agency for QA & Accr.Engrg.Programmes, Italy (*) "Candidate Agency" (has overcome a preliminary check)
- **CTI** (jointly with **AEQES**, the French-Belgian HE Accreditation Agency) will accredit and award EUR-ACE labels in French-language Belgian HEIs;
- FINHEEC, Finnish QA Agency, has applied to be "mentored" in preparing
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Summing up, ENAEE is creating a two-tier system of European-accredited engineering programmes.



Variants to accommodate specific national needs and/or additional qualifications (e.g. for specialized degrees or specific profiles) are not excluded.

Indeed, the EUR-ACE label is an "addition" to a national accreditation, and can be regarded as a quality guarantee of an accepted common basis to programmes providing an entry route to the engineering profession.

The experience of national accreditation bodies, old-established in several European countries, is fully exploited.

This approach and the essential distinction between FCD and SCD make the EUR-ACE system at the same time flexible and simple and should allow it to be spread world-wide.

Third Cycle (Doctoral) and Continuing Education are not (yet) considered.

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Any Higher Education Institution throughout Europe and the world that want the EUR-ACE FC or SC Label for one or more of their engineering programmes, even if no EUR-ACE-authorized Agency exists in their country, can apply through one of the EUR-ACE Agencies, following its procedure.

Alternatively, they can contact directly the ENAEE Secretariat, that will direct them to the most convenient Agency.



For up-to-date information, application forms, etc., visit www.enaee.eu or www.eur-ace.eu



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