



The Order of Engineers and its Accreditation System

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Meeting with ENQA
MCTES, Lisbon, Portugal, 2 February 2006



To say what I am going to say...

Professional Recognition and Qualifications

- ① Engineering Education and the Engineering Profession
- ② The Order of Engineers -
Legal framework; Organisation; Co-operation; Membership...
- ③ The Accreditation Process Today
Formal objectives and practical implications; Conceptual model; Procedures; Figures...
- ④ The Accreditation Process - Preparing the future
New model
- ⑤ The Accreditation Process - What comes next?



Engineering Education and the Engineering Profession Academic Titles and Professional Titles

☞ Academic titles at present (March 2006) still awarded by Portuguese Institutions of Higher Education :

- | | |
|---------------------|---|
| ✓ <i>Bacharel</i> | a 3 years course |
| ✓ <i>Licenciado</i> | a 5 years course |
| ✓ <i>Mestre</i> | 2 further years of study, after <i>Licenciado</i> , including a course and research |
| ✓ <i>Doutor</i> | 3 to 4 further years of research, after <i>Licenciado</i> or <i>Mestre</i> |

☞ Professional Titles are legally protected in Portugal:

- ✓ The professional title of *Engenheiro* (Engineer) is awarded by the Order of Engineers. All *Licenciados* may apply for the professional title of Engineer.
- ✓ The professional title of “Engenheiro Técnico” (Technical Engineer) is awarded by ANET (Associação Nacional dos Engenheiros Técnicos - National Association of Technical Engineers). All holders of a *Bacharel degree* may apply for the professional title of Engenheiro Técnico



Order of Engineers I - Legal Framework and Mission Statement (I)

- ☞ Order of Engineers is the public association that represents the holders of a *Licenciado* diploma that work as *Engenheiros* (Engineers).
- ☞ Order of Engineers (OE) was created in November 24, 1936 and is ruled by the Portuguese law, decree n. 119/92 of the 30th June, which contains all its legal competencies.
- ☞ Order of Engineers is independent from the State and has administrative, financial, scientific, disciplinary and regulatory autonomy.
- ☞ Order of Engineers is the single largest Portuguese professional association with about 32000 members



Order of Engineers I - Legal Framework and Mission Statement (II)

☞ Among other competencies:

.....

- ✓ To support and cooperate on the development of Engineering education in order to guarantee a high standard of the Engineering profession

- ✓ To promote exchanges with the national and foreign comparable organizations in order to develop any cultural and professional links involving the Engineers in the world.

.....



Order of Engineers III - Institutional Co-operation and Agreements (I)

OE is worldwide associated (and actively co-operates) with a very significant number of organizations representing engineering:

Just to mention some -

- ☞ CLAIU - Comité de Liaison des Associations d'Ingénieurs de l'Union Européenne;
- ☞ FEANI - Fédération Européenne des Associations Nationales d'Ingénieurs;
- ☞ All partners of EUR-ACE (EC-UK, ASIIN, CTI, CoPi, SEFI, IEI, RAEE, EUROCADRES, UNIFI...)
- ☞ Partners from Portuguese spoken Countries



Order of Engineers IV - Membership - Conditions of admission (I)

- ☞ For holders of a Diploma of *Licenciado in Engineering* by a Portuguese Institution:
To obtain the professional title of *Engenheiro*, the Order of Engineers requires the fulfillment of the following further conditions:

- ✓ To have been approved in an admission exam organized and run by Order of Engineer
- ✓ To have gone through an approved period of training and to have attended an Ethics and Professional Conduct course also run by OE



The Accreditation Process Today I - Formal Objectives, Practical Consequences

- ☞ **Formal**
 - ✓ The accreditation process aims at exempting candidates from the admission exam
 - ✓ A Candidate holding a diploma from an accredited course IS EXEMPTED from the admission exam
- ☞ **Practical consequences**
 - ✓ Far wider consequences
 - ✓ Accreditation is an exercise that leads to significant organisational improvements
 - ✓ Accreditation is perceived by the Society as a stamp of quality of a course offered by an institution



The Accreditation Process Today II - Conceptual Model

- ☞ **Main reference terms**
 - School Administration
 - Teaching staff
 - Curricular content
 - School enrolment and assessment of students
 - Course structure
 - R&D quality
 - Facilities and resources
 - Administrative procedures
 - Institutional culture
- ☞ **Inspired on ABET and EC-UK criteria of the nineties...**
- ☞ **It is clear that it is Engineering Degree Programs and not Institutions that are accredited**

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The Accreditation Process Today III - Procedure

- ☞ **National Admission and Qualification Council runs the accreditation process**
 - 24 members (2 per College) chaired by a Vice-President
 - ✓ Accreditation Committee of 4-5 members
 - ✓ Analysis of dossier previously submitted
 - ✓ 1-Day Visit
 - ✓ Reporting
 - ✓ Proposal of decision
- ☞ **All steps are regulated in the general procedure approved by the OE's National Board**

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- ☞ The decision may take the following forms:
- a) **Full 6-year accreditation**, subject to revaluation at the end of this period, expecting that recommendations listed in the report will be addressed
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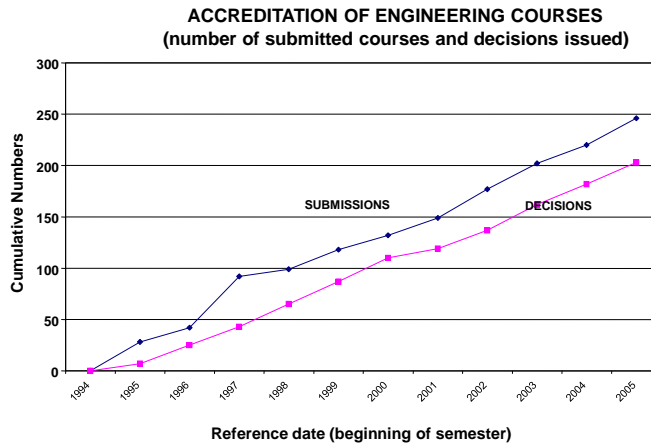
The Accreditation Process Today V - Accreditations carried out since 1994 (I)

| | |
|------------------|-----|
| Applications - | 246 |
| Accredited - | 170 |
| Non-Accredited - | 33 |
| In progress - | 43 |



The Accreditation Process Today

V - Accreditations carried out since 1994 (II)



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The Accreditation process - preparing the future

I - National Activity and International Co-operation

- ☞ **New Accreditation System in testing phase**
 - ✓ 3 pilot projects running
 - ✓ In agreement with EUR-ACE Guidelines
- ☞ **Active participation in EUR-ACE project**
- ☞ **Founder member of ENAEE - European Network for Accreditation of Engineering Education**

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The Accreditation process - preparing the future II - New Approach and Methodological Guidelines (I)

☞ New fresh approach

- ✓ By requisites (16 criteria)
- ✓ Focused to the professional practice
- ✓ Evaluation on the basis of evidence
- ✓ Emphasis on quality improvement
- ✓ Follow-up of the quality plan of programmes
- ✓ Obeying EUR-ACE standards and procedures
- ✓ Seeking accreditation of OE by ENAEE

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The Accreditation process - preparing the future II - New Approach and Methodological Guidelines (II)

☞ The 16 Requisites

| | |
|--|---|
| REQUISITE 1 - LEGITIMACY OF THE COURSE OPERATION | REQUISITE 9 - STANDARD OF TEACHING |
| REQUISITE 2 - ORGANISATION OF THE APPLICATION PROCESS | REQUISITE 10 - INVOLVEMENT OF THE TEACHERS IN THE RUNNING OF THE COURSE |
| REQUISITE 3 - STRATEGY OF THE HIGHER EDUCATIONAL INSTITUTION WITH REGARD TO THE COURSE UNDER CONSIDERATION | REQUISITE 11 - ADMISSION, MONITORING AND EVALUATION OF THE STUDENTS |
| REQUISITE 4 - COURSE DEVELOPMENT | REQUISITE 12 - EVALUATION OF THE COURSE BY STUDENTS, RECENT GRADUATES AND EMPLOYERS |
| REQUISITE 5 - COOPERATION WITH OTHER INSTITUTIONS | REQUISITE 13 - SUITABILITY OF PREMISES |
| REQUISITE 6 - RANGE OF THE COURSE AND SPECIFIC SKILLS | REQUISITE 14 - PEDAGOGIC FACILITIES |
| REQUISITE 7 - CURRICULUM STRUCTURE AND PEDAGOGIC PROGRAMME | REQUISITE 15 - COURSE MONITORING |
| REQUISITE 8 - DESCRIPTION OF THE THEMES TAUGHT AND ACADEMIC ACTIVITIES | REQUISITE 16 - EFFECTS OF OTHER EVALUATIONS AND THE QUALITY ASSURANCE PLAN |

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The Accreditation process What comes next?

- ☞ OE is fully committed to Quality Assurance
- ☞ Articulation with the
National Accreditation System...
- ☞ Aiming at fulfilling our Statutory Obligation within this new paradigm of international and in particular European co-operation, of

Supporting and co-operating on the development of Engineering education in order to guarantee the highest standard for the Engineering profession



Order of Engineers and its Accreditation Process

Full Presentation



Engineering Education and the Engineering Profession I - Academic Titles

☞ Academic titles at present (March 2006) still awarded by Portuguese Institutions of Higher Education :

- ✓ *Bacharel* a 3 years course
- ✓ *Licenciado* a 5 years course
- ✓ *Mestre* 2 further years of study, after *Licenciado*, including a course and research
- ✓ *Doutor* 3 to 4 further years of research, after *Licenciado* or *Mestre*

☞ Academic Titles after the reform, 2006/2007:

- ✓ *Licenciado* 6 to 8 semesters of work (full-time equivalent)
- ✓ *Mestre* after further 3 to 4 semesters or through an integrated programme
- ✓ *Doutor* after a minimum of 3 years of course and research work



Engineering Education and the Engineering Profession II - The Offer of Engineering Education in Portugal

☞ 297 Engineering Courses under 126 Designations

☞ 64 Schools of Engineering in 44 Institutions of Higher Education

- ✓ 30 institutions of the public subsystem
 - 13 Universities with their 18 University Schools
 - 17 Polytechnic Institutes with their 29 Polytechnic Schools
- ✓ 14 Institutions of the Private and Concordatary subsystem
 - 7 Universities with their 7 University Schools
 - 7 Higher Education Institutions with 10 Polytechnic Schools

☞ Out of the 297 courses

- ✓ 97 courses are currently accredited by the Order of Engineers, corresponding to 56 different designations



Engineering Education and the Engineering Profession III - Professional Titles and Professional Regulation

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- ☞ The Engineering Profession is partially regulated in Portugal
 - ✓ Some acts, namely in Civil Engineering, but also in areas of Electrical and Mechanical Engineering, can only be performed by members of Order of Engineers

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- ☞ Order of Engineers is independent from the State and has administrative, financial, scientific, disciplinary and regulatory autonomy.
- ☞ Order of Engineers is the single largest Portuguese professional association - approx. 32000 members

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Order of Engineers

I - Legal Framework and Mission Statement (II)

- ☞ The main purpose of the Order of Engineers is to contribute to the development of the Portuguese Engineering by working with other partners for the improvement of legal frameworks and of the scientific, professional and social level of its members, and by accomplishing codes of professional ethics.
- ☞ **Some competencies:**
 - ✓ To award the professional title of Engineer and to protect it against abuse
 - ✓ To regulate the professional practice and also to protect the professional practice by legal means
 - ✓ To improve Engineers' professional qualification and to ensure the accomplishment of the professional code of ethics
 - ✓ To support and cooperate on the development of Engineering education in order to guarantee a high standard of the Engineering profession
 - ✓ To promote exchanges with the national and foreign comparable organizations in order to develop any cultural and professional links involving the Engineers in the world.

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Order of Engineers

II - Internal organisation (I)

- ☞ **Territorial, covering all the Country with**
 - ✓ 3 Regions with Delegations
 - ✓ and 2 Sections (Madeira and Azores)
- ☞ **Colleges - 12 Specialties, covering all the engineering areas**
- ☞ **Governance by a National Board of Directors**
 - ✓ President (Bastonário) and 2 Vice-Presidents nationally elected
 - ✓ 6 other members, representing the Regions, elected in each Region
- ☞ **Governance supported by two major Councils**
 - ✓ Admissions and Qualification Council that regulates the admission and qualification of members
 - ✓ Colleges Co-ordinating Council

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Order of Engineers II - Internal organisation (II)

☞ Internal organisation in Colleges - 12 Specialties

- ✓ Civil Engineering
- ✓ Electrical Engineering
- ✓ Mechanical Engineering
- ✓ Mining Engineering
- ✓ Chemical Engineering
- ✓ Naval Engineering
- ✓ Geographic Engineering
- ✓ Forest Engineering
- ✓ Metallurgical Engineering
- ✓ Agricultural Engineering
- ✓ Informatics Engineering

☞ Each College has its own National Board and Regional Co-ordination Board

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Order of Engineers II - Internal organisation (III)

☞ Specializations (different from Specialties) - more horizontal, or sub-areas within major areas

| | |
|--------------------------------|-------------------------|
| Energy | Textile Engineering |
| Food Engineering | Construction Management |
| Industrial Engineering | Territorial Planning |
| Geotechnics | Structures |
| Acoustic Engineering | Transportations |
| Air Conditioning Engineering | Hydraulics |
| Sanitary Engineering | Industrial Maintenance |
| Geographic Information Systems | Automation and Control |
| Aeronautics | |
| Safety Engineering | |
| Telecommunications | |

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Order of Engineers II - Internal organisation (IV)

Staff

- ✓ **Headquarters**
 - 16 strong, of which 8 with University Degree
 - Department of Admissions and Qualification
 - 4 members of staff - with University degree
- ✓ **North Region**
 - 16
- ✓ **Center Region**
 - 7
- ✓ **South Region**
 - 18
- ✓ **Sections (Madeira and Azores)**
 - 4



Order of Engineers III - Institutional Co-operation and Agreements (I)

OE is associated with a significant number of organizations representing engineering:

| | |
|---|--|
| <p>CLAIU - Comité de Liaison des Associations d'Ingénieurs de l'Union Européenne;</p> <p>FEANI - Fédération Européenne des Associations Nationales d'Ingénieurs;</p> <p>EUCEET - European Civil Engineering Education and Training;</p> <p>ECCE - European Council of Civil Engineers;</p> <p>EUREL - Convention of National Societies of Electrical Engineers of Europe;</p> <p>FEIBEM - Federação Ibero-Americana de Engenheiros Mecânicos;</p> | <p>CEDIA - Confédération Européenne d'Ingénieurs Agronomes;</p> <p>EFCE - European Federation of Chemical Engineers;</p> <p>CEMT - Confederation of European Maritime Technologies;</p> <p>ECG - European Commission of Glass;</p> <p>FIG - Federation of Surveyors;</p> <p>REHVA - Federation of European Heating and Air Conditioning Associations;</p> <p>CFPA - Confederation of Fire Protection Associations;</p> <p>CEAS - Confederation European Aerospace Societies.</p> |
|---|--|



Order of Engineers III - Institutional Co-operation and Agreements (II)

- ☞ OE has (or has had) also several partnerships or memorandums of understanding with other European and American Engineering Association (EC-UK, ASIIN, CTI, CoPi, SEFI, IEI, RAEE, EUROCADRES, UNIFI, ABET...).

- ☞ OE further has a close relationship with similar Associations of the CPLP (Portuguese Speaking Community):
 - ✓ CONFEA - Brazil
 - ✓ Order of Engineers of Angola
 - ✓ Order of Engineers of Mozambique
 - ✓ Order of Engineers of Cabo Verde

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Order of Engineers IV - Membership - Conditions of admission (II)

- ☞ For candidates holding a diploma from other countries:
 - ✓ Candidates holding a diploma from a country of the European Union will have their request analyzed according to legislation approved in the Directives for Professional Recognition and its related translation to Portuguese legislation.
 - ✓ Candidates holding a diploma from third countries will have to seek equivalence from a Portuguese University.

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Order of Engineers IV - Membership - Numbers

- ☞ About 32000 members in the 12 Specialties

| | |
|---------------------------------|-------|
| ✓ Civil Engineering (C) | 40,8% |
| ✓ Electrical Engineering (E) | 21,6% |
| ✓ Mechanical Engineering (M) | 13,7% |
| ✓ Mining Engineering (N) | 2,0% |
| ✓ Chemical Engineering (H) | 8,0% |
| ✓ Naval Engineering (N) | 0,3% |
| ✓ Geographic Engineering (G) | 0,8% |
| ✓ Forest Engineering (F) | 1,3% |
| ✓ Metallurgical Engineering (T) | 0,7% |
| ✓ Agricultural Engineering | 8,6% |
| ✓ Informatics Engineering | 0,7% |

- ☞ About 6000 registered trainees

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The Accreditation Process Today

I - Formal Objectives, Practical Consequences

☞ Formal

- ✓ The accreditation process aims at exempting candidates from the admission exam
- ✓ A Candidate holding a diploma from an accredited course IS EXEMPTED from the admission exam

☞ Practical consequences

- ✓ Far wider consequences
- ✓ Accreditation is an exercise that leads to significant organisational improvements
- ✓ Accreditation is perceived by the Society as a stamp of quality of a course offered by an institution



The Accreditation Process Today

II - Conceptual Model

☞ Main reference terms

- School Administration
- Teaching staff
- Curricular content
- School enrolment and assessment of students
- Course structure
- R&D quality
- Facilities and resources
- Administrative procedures
- Institutional culture

☞ Inspired on ABET and EC-UK criteria of the nineties...

☞ It is clear that it is Engineering Degree Programs and not Institutions that are accredited



The Accreditation Process Today III - Procedure

- ☞ National Admission and Qualification Council runs the accreditation process
 - 24 members (2 per College) chaired by a Vice-President
 - ✓ Accreditation Committee of 4-5 members
 - ✓ Analysis of dossier previously submitted
 - ✓ 1-Day Visit
 - ✓ Reporting
 - ✓ Proposal of decision
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- ☞ All steps are regulated in the general procedure approved by the OE's National Board



The Accreditation Process Today IV - Decision

- ☞ The decision may take the following forms:
 - a) **Full 6-year accreditation**, subject to revaluation at the end of this period, expecting that recommendations listed in the report will be addressed
 - b) **Limited 3-year accreditation**, the report stating the aspects to be corrected within the indicated period and to be assessed in a new accreditation process
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The Accreditation Process Today

V - Accreditations carried out since 1994 (I)

| ORDEM DOS ENGENHEIROS - GABINETE DE QUALIFICAÇÃO | | | | | | | |
|---|-------------------|------------------|------------------|-------------------|--------------------|-------------------|------------|
| CONCISE SITUATION OF THE ACCREDITATION OF ENGINEERING COURSES | | | | | | | |
| RELATED TO February 2, 2006 | | | | | | | |
| Colleges | Applicant courses | Scheduled visits | Completed visits | Completed reports | Accredited courses | n/ accred courses | Decisions |
| Agricultural | 27 | 24 | 24 | 24 | 22 | 1 | 23 |
| Environment | 13 | 12 | 12 | 8 | 6 | 2 | 8 |
| Civil | 32 | 30 | 30 | 29 | 20 | 8 | 28 |
| Electrical | 30 | 27 | 27 | 27 | 23 | 3 | 26 |
| Geographic | 6 | 6 | 6 | 6 | 6 | 0 | 6 |
| Informatics | 16 | 13 | 13 | 12 | 9 | 2 | 11 |
| Machanical | 35 | 31 | 31 | 28 | 22 | 6 | 28 |
| Metal&Mat | 15 | 13 | 13 | 10 | 10 | 0 | 10 |
| Mining | 16 | 16 | 16 | 15 | 13 | 2 | 15 |
| Naval | 2 | 1 | 1 | 1 | 1 | 0 | 1 |
| Chemical | 16 | 14 | 14 | 14 | 13 | 0 | 13 |
| Forest | 5 | 5 | 5 | 4 | 4 | 0 | 4 |
| Other | 33 | 31 | 31 | 30 | 21 | 9 | 30 |
| Total | 246 | 223 | 223 | 208 | 170 | 33 | 203 |

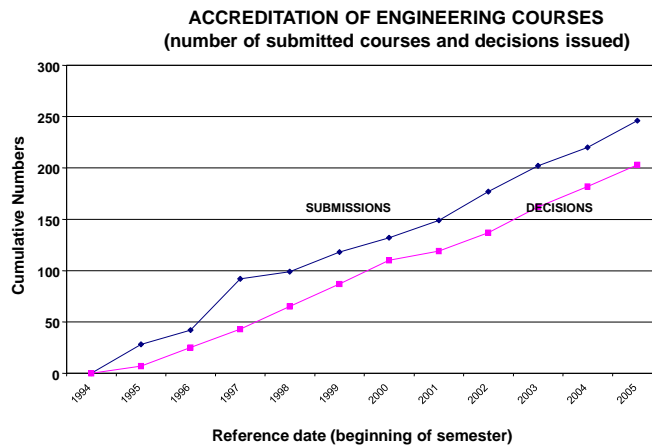
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The Accreditation process - preparing the future I - National Activity and International Co-operation

- ☞ **New Accreditation System in testing phase**
 - ✓ 3 pilot projects running
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- ☞ **Active co-operation within EUR-ACE project**
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 - ✓ By requisites (16 criteria)
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The 16 Requisites

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