



ECSA: FROM CBE ACT TO CPD

Presentation to SACEA @ KRIEL COLLIERY

24 March 2006



ECSA REGISTRATION WORKSHOP

Please ask questions as we progress with presentation



ECSA REGISTRATION WORKSHOP

Agenda

- Background
 - CBE, 2000
 - Eng Profession Act, 2000
 - ECSA
 - Chamber of Mines/Coal Mining Industry
- Identification of Engineering Work for Compulsory Registration
- Legal Opinion
- Voluntary Associations
- Application for Registration
- Continued Professional Development



ECSA REGISTRATION WORKSHOP

Background

- Council for the Built Environment Act, 2000 (Act 43 of 2000)
 - Promulgated on 1 December 2000
 - 9 Objectives
 - Objective no. 6
 - Promote sound governance of the Built Environment professions
 - » Reason for Engineering Profession Act being promulgated



ECSA REGISTRATION WORKSHOP

Background

- Engineering Profession Act, 2000 (Act 46 of 2000)
 - Establishment of ECSA
 - Setting and auditing of academic standards
 - Setting and auditing of professional development standards
 - Prescribing requirements for CPD
 - Prescribing a Code of Conduct and Codes of Practice



ECSA REGISTRATION WORKSHOP

Background

- Establishment of ECSA (cont.)
 - Identification of work of an engineering nature that should be reserved for registered persons by the CBE
 - Advising the CBE and Minister of Public Works on matters relating to the engineering profession
 - Recognition of professional associations
 - Publication of a guideline tariff of fees for consulting work



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Background

- Categories of Registration
 - Professional Engineer
 - Professional Engineering Technologist
 - Professional Certificated Engineer
 - Professional Engineering Technician

 - Candidates in all of the above categories
 - Replace “Professional” with “Candidate”



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Background

- Rules
 - Person may not practise in any category if not registered in that category
 - Person may only practise as a consultant in the category in which he is registered
 - Candidates must perform work in the engineering profession only under supervision and control of a professional in a category as prescribed



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Background

- Chamber of Mines/Mining Industry
 - Mine Health and Safety Act
 - Governs mining industry
 - We are not governed by any other act
 - Disagreement between Ministers of Minerals & Energy and Public Works
 - Legal Opinion
 - Cheadle Thomson & Haysom Inc. Attorneys



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- Identification of Engineering Work to be Reserved for Compulsory Registration
 - Work completed by Working Group
 - Documents approved by ECOSA Council on 24 November 2005 (website)
 - Deliverable 6 - Framework for the Identification of Work for Persons Registered to Eng Prof Act (24 November 2005)
 - Deliverable 5 - Baseline Report (14 August 2005)
 - Deliverables 1 – 4



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IDoEW

- Baseline Report (Section 5 on Page 8)
 - Considering the above definition of engineering and taking the minimum required competencies into account, the following **ENGINEERING WORK** that has an impact on public health, safety and the environment is identified as work that needs to be reserved for Registered Persons:
 - Designs of materials, components, systems, plant or processes;
 - Planning the capacity and location of infrastructure;



ECSA REGISTRATION WORKSHOP

IDoEW

- **Baseline Report**
 - Investigating, advising and reporting on engineering problems;
 - Improvement of materials, components, systems, plant, equipment or processes;
 - Managing, maintaining or operating plant, equipment and processes;
 - Managing implementation or construction projects;
 - Implementing designs or solutions;



ECOSA REGISTRATION WORKSHOP

IDoEW

- **Baseline Report**
 - Research, development and commercialization of products;
 - Management of Engineering Projects;
 - Education, training and development of engineering candidates for Registration as Professionals;
 - Planning and delivery of ECOSA accredited engineering programmes and academic staff who are responsible for teaching and assessing engineering and professional exit level outcomes in ECOSA accredited engineering programmes;



EC SA REGISTRATION WORKSHOP

IDoEW

- Baseline Report
 - Mentoring of Engineering Candidates and other applicants requiring registration;
 - Work reserved for Engineering Persons by other Acts. See **Appendix 7**;
 - Drafting and Approval of Mandatory Codes of Practice;
 - Drafting and Approval of Engineering Standards;
 - Management of the Risks associated with engineering systems, plant, equipment, processes, infrastructure and fire;



EC SA REGISTRATION WORKSHOP

IDoEW

- **Baseline Report**
 - Assessment and Moderation in respect of Engineering Competencies, and
 - The work of the Specified Categories who are required to be registered by legislation. (e.g. Lift Inspectors).

This above list of engineering work has been identified as work to be reserved for registered engineering persons. This list is by no means complete and will be added to from time to time.



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Legal Opinion

- Cheadle Thomson & Haysom Inc. Attorneys
 - Are we obliged to use only registered persons as per Eng Prof Act?
 - Plus other issues
 - Considered various Acts
 - **Conclusion: (P19 of Letter)**identification and restriction of work to certain categories of registered professionals....., is applicable to the mining industry.....



ECSA REGISTRATION WORKSHOP

VOLUNTARY ASSOCIATIONS

- Voluntary Associations - Rules in terms of Section 36(1)
 - The Engineering Council of South Africa, has in terms of section 36(1) of the Engineering Profession Act, 2000 (Act 46 of 2000) made the rules in relation to the recognition of voluntary associations as contemplated in Sections 14(d) and 25 of the Act.
- The following categories of *voluntary associations* are hereby established:
 - *Category A*
 - *Category B*
 - *Category C*



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VOLUNTARY ASSOCIATIONS

Category A and B

Associations whose membership consists of natural persons who, subject to the applicable provisions of Rule 4, are: –

- practising in any particular discipline or sub-discipline of engineering; or
- practising in any particular category of registration contemplated in section 18 of the Act.



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VOLUNTARY ASSOCIATIONS

Category A and B

- The *associations* must be governed by formally accepted constitutions which –
 - is not in conflict with the Constitution of the Republic of South Africa;
 - is not in conflict with the Act or any policies and rules of the Council; and
 - does not obligate its members to adhere to a code of conduct, which is in conflict with the Council's code of professional conduct, or any applicable code of practice published by the Council.



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VOLUNTARY ASSOCIATIONS

Category A and B

- The *associations* must be of South African origin and its *governing body* must be independent of direct influence by any foreign body.
- The *associations* must adhere strictly to its constitution, and be able to satisfy the Council of such adherence.



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VOLUNTARY ASSOCIATIONS

Category A

- The *association* must have as one of its core missions the promotion of the interests of its members and the engineering profession.
- The *association* must have at least 100 *voting members*, who are *in good standing* with the *association*.
- A majority of its *voting members* must be *registered persons*.



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VOLUNTARY ASSOCIATIONS

Category A

If an *association* does not comply with this requirement, the Council may condone such failure on condition that-

- At the time of application, which may not be later than **30 June 2006**, the *association* must prove that **at least 30%** of its *voting members* are *registered persons*; and that
- By no later than **31 December 2006**, the *association* must prove that **at least 40%** of its *voting members* are *registered persons*, and that
- By no later than **31 December 2007**, the *association* must prove that **majority** of its *voting members* are *registered persons*.
- A majority of the members of its *governing body* must be *registered persons*.



ECSA REGISTRATION WORKSHOP

Applications

- Why Register?
 - As per background given
 - Instruction from CEO – all eligible persons in ACSA to be registered by December 2006
- Application forms
 - www.ecsa.co.za/Download_application_forms?/Professionals
- Discipline Specific Rules
 - [www.ecsa.co.za/Registration/Engineers/Discipline Specific Guidelines/Chemical Engineering/Section 5](http://www.ecsa.co.za/Registration/Engineers/Discipline_Specific_Guidelines/Chemical_Engineering/Section_5)



ECSEA REGISTRATION WORKSHOP

Applications

- Base qualifications required
 - Pr Eng
 - Bachelors in chemical engineering & 3 years experience
 - Pr Technologist
 - Masters diploma in technology & 3 years experience
 - B Tech & 3 years experience
 - NHD & 6 years experience
 - Pr Technician
 - ND or NHD & 3 years experience



ECSA REGISTRATION WORKSHOP

Continued Professional Development

- System developed and approved by ECSA Council
 - System effective from 1 January 2006
 - 3 Categories in which credits can be earned
 - 25 Credits for every 5 year cycle
 - 5 credits per year from at least 2 categories
 - Minimum of 3 credits per year
 - At least one credit from Category 1 per year
 - May role credits from year to year
 - Submit annually
 - Belonging to an ECSA Recognised Voluntary Association = **1 credit automatically**



ECSA REGISTRATION WORKSHOP

Continued Professional Development

Category 1 – Developmental Activities (Max.4 credits per year; 10hrs/credit)

- Conferences
- Congresses
- Large group workshops
- Lectures
- Seminars
- Refresher courses
- Colloquiums



ECSA REGISTRATION WORKSHOP

Continued Professional Development

Category 2 – Work based Activities.

- Engineering work (Max. 2 credits per year; 400hrs/credit)
- Mentoring (Max. 1 credit per year; 50hrs/credit)

Category 3 – Individual Activities

- Membership of a recognised *voluntary association* = 1 credit (not linked to hours)
- Other activities (Max. 3 credits; 10hrs/credit)
 - Part-time lecturing to undergraduate and postgraduate students: one credit for every 10 hours of lecturing.
 - Supervision of students undertaking postgraduate studies: 2 credits per year.
 - Oral examinations of final year and postgraduate students: 1 credit for every 10 hours of active involvement.



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Continued Professional Development

- Other activities (Max. 3 credits 10hrs/credit)
 - Evaluation of M dissertations and PhD theses by external examiners: 2 credits per year.
 - Publication of research in peer reviewed journals: a single author: 2 credits per publication. Where paper has a number of authors: 1 credit per publication per author.
 - Publication of technical articles: 1 credit per article published.
 - Papers presented at conferences or congresses / poster presentations: 1 credit each
 - Participation in statutory, professional, institutional, technical or non-technical committees or task groups: one credit for every 10 hours of active participation.



ECOSA REGISTRATION WORKSHOP

Continued Professional Development

- Other activities (Max. 3 credits 10hrs/credit)
 - Evaluation of educational programmes at Universities and Universities of Technology (Technikons) for accreditation purposes: 1 credit for every 10 hours of active involvement.
 - Evaluation of educational qualifications for ECOSA's Qualifications Examination Committee: 1 credit for every 10 hours of active involvement.
 - Evaluation of competence and applications for registration for ECOSA's Registration Committees and Professional Advisory Committees: 1 credit for every 10 hours of active involvement.



ECSA REGISTRATION WORKSHOP

Continued Professional Development

- Other activities (Max. 3 credits 10hrs/credit)
 - Relevant additional qualifications (these are exceptional allocations): A completed postgraduate qualification: 5 credits.
 - self-study which includes, but is not restricted to studying of journals or electronic or computerised material, one credit for every 10 hours of study. All activities under this item must be verified.



Thank you