

# ECEC questionnaire – 31th August 2007

## ANALYSIS

### 1. Members of a chamber are:

- univ.dipl.ing. (min. 4 years)
- dipl.ing. (min. 3 years)
- ing. (min. 2 years)
- technician
- 1st Bologna cycle
- 2nd Bologna cycle
- others: \_\_\_\_\_

	Austria	Croatia	Czech Republic	Germany	Poland	Serbia	Slovakia	Slovenia
<input checked="" type="checkbox"/> univ.dipl.ing. (min. 4 years)	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<input type="checkbox"/> dipl.ing. (min. 3 years)				<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<input type="checkbox"/> ing. (min. 2 years)		<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<input type="checkbox"/> technician		<b>x</b>			<b>x</b>			<b>x</b>
<input type="checkbox"/> 1st Bologna cycle	<b>x (3)</b>				<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<input type="checkbox"/> 2nd Bologna cycle	<b>x (2)</b>			<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<input type="checkbox"/> others: _____							<b>x</b>	

### SUGGESTION:

**Members who fulfill all conditions and are registered automatically in a foreign chamber are univ.dipl.ing. (min. 4 years) and those, who finished 2nd Bologna cycle.**

### 2. Conditions for entering the profession consist of:

- Relevant education:
- Relevant practise:
- Professional exam:
- Other type of exam:
- Knowledge of language:

Relevant education:	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
Relevant practise:	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
Professional exam:	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
Other type of exam:								
Knowledge of language:			<b>x</b>	<b>x</b>				

### SUGGESTION:

**Conditions for entering the profession should consist of relevant education, relevant practice and professional exam. It has to be decided wheather a (foreign) Engineer has to have a knowledge of language or not.**

### 3. Who is responsible for relevant practise confirmation?

- members of the chamber

	Austria	Croatia	Czech Republic	Germany	Poland	Serbia	Slovakia	Slovenia
<input type="checkbox"/> members of the chamber		<b>x</b>	<b>x</b>	<b>x</b>	<b>x*</b>	<b>x</b>	<b>x</b>	<b>x</b>

companies  
 other:

	X		
employer approved by the Ministry of Economics and Labour	X		
	X	X	X
	X*	X*	X*
	* themselves in case they are self-employed	* themselves in case they are self-employed	* themselves in case they are self-employed
		* with unlimited authorisations	

**SUGGESTION:** For relevant practice confirmation are responsible members of the chamber and companies.

4. Professional or other type of exam is organised by:

<input type="checkbox"/> the chamber			
<input type="checkbox"/> the ministry	X	X	X
<input type="checkbox"/> other:	X	X	X
federal state government		X	

**SUGGESTION:** Professional exam should be organised or by the chamber or the ministry or federal state government.

6. Some details of exam:

Austria

- Austrian administrative law
- business administration
- legal and professional regulations of the special professional field
- professional laws and ethic rules of the profession
- (special knowledge for the licence of a geodetic surveyor)

Croatia Construction legislation, standards

- Poland The exam consists of two parts:  
 1) a written exam: test  
 2) an oral exam (the oral part of an exam is meant to check the level of knowledge of the building law as well as the ability to use technical knowledge in practice)
- Serbia The exam consist of two different parts of witch on relevant road is the knowledge on relevant laws legislation and second part consist of professional and technical skills.
- Slovakia 1<sup>st</sup> part: Written exam – test of 50 questions from the Slovak building acts and regulations  
 2<sup>nd</sup> part: Oral exam – debate and oral defense of minimum 3 projects from the professional experience of applicant
- Slovenia Standards of knowledge, the programmes for professional examinations and the manner in which they are held are prescribed by the Ministry responsible for planning and construction matters. Types of professional examinations: the examination for responsible project design, the examination for responsible works management, the examination for responsible auditing and the examination for responsible land surveyor.

**SUGGESTION: Exam should consist of:**

- **debate and oral defense of minimum 3 projects from the professional experience of applicant**
- **legal and professional regulations of the special professional field**
- **professional laws and ethic rules of the profession**
- **business administration**
- **administrative law ??**
- **(special knowledge for the licence of a geodetic surveyor)**

7. Titles/licences given to the members (of different education) by the chamber and their authorisation/tasks defined by law:
8. Titles/licences given to the members (of different education) by the chamber and required education and minimum relevant practise
- Austria Chartered Engineering Consultants  
 to provide planning, inspecting, monitoring, advising, coordinating, mediating, fiduciary services;  
 to conduct surveys, to establish public documents in their areas of specialisation;  
 to provide professional representation in negotiations with authorities and public corporations;  
 to work in the organisational and commercial development of projects and to undertake complete planning contracts for their entire expert area;  
 Further chartered engineering consultants have the authorisation by the professional law for i.e.:  
 project management, controlling, expertises, expert reports, evaluations, employment protection, tenders  
 university degree in engineering and scientific areas (Dipl. Ing.: 5 years) or

university degree in technical or scientific or mining areas or in areas of the university of natural resources and applied life sciences (Dipl. Ing.: 5 years) or university of applied sciences degree in engineering and scientific areas (Dipl. Ing. (FH), min. 4 years)

professional practice: at least three years (after graduation)

Croatia  
Authorized architect: dipl.ing- 3 years, ing.- 10 years, technician- 10 years  
Authorized civil engineer: dipl.ing- 3 years, ing.- 10 years, technician- 10 years  
Authorized land surveying engineer: dipl.ing- 3 years, ing.- 10 years, technician- 10 years  
Authorized mechanical engineer: dipl.ing- 3 years, ing.- 10 years, technician- 10 years  
Authorized electrical engineer: dipl.ing- 3 years, ing.- 10 years, technician- 10 years

Czech Rep  chartered engineer: design (signing of building plans), works managing, supervision  
 chartered technician: design, works managing, supervision  
 chartered engineer.  
 chartered technician: univ.dipl.ing.-5 years + 3 years practise (unlimited authorisation)  
higher school-3 years + 5 years practise (limited authorisation)

Germany consultant engineer: design (signing of building plans) min. 3 years of education + 3 years of relevant practice  
expert engineer

Poland  
Authorisations:  
1. Being able to design and obtain unlimited authorisations and architectural/building projects  
2. Designing projects with limited authorisations  
3. Works management at the building site - use of limited authorisations  
4. Designing and works management at the building site - use of unlimited authorisations  
5. Designing and works management at the building site - use of limited authorisations  
6. Works management at the building site for straw bosses  
7. Authorisations as the ones mentioned above with the extra specialisations chosen before taking the exam required to gain authorisations and with the use of limited authorisations in the other type of specialization  
9. Extension of the authorisations

The full building qualifications in the titles/licenses (question no. 7) require:

- 1) Being able to design and obtain unlimited authorisations and architectural/building projects:
  - a) Having a univ. dipl. – 5 years – taken at a faculty relevant to the chosen specialisation
  - b) 2 years of practice in preparing projects
  - c) 1 year of practice on the building site;
- 2) Designing projects with limited authorisations:

- a) Graduation of higher vocational studies at a faculty relevant to the chosen special. or a univ. dipl.–taken at a faculty similar to the chosen specialisation
- b) 2 years of practice in preparing projects
- c) 1 year of practice on a building site;

3) Works management at the building site – and use of unlimited authorisations:

- a) univ. dipl. – 5 years – at a faculty relevant to the chosen specialisation
- b) 2 years of practice on the building site;

4) Works management at the building site – limited authorisations:

- a Graduation of higher vocational studies at a faculty relevant to the chosen specialisation or a univ. dipl. at a faculty similar to the chosen specialisation
- b) 3 years of practice on the building site;

The condition of having professional practice as being complete is that you have worked and took part in designing projects and carried out tasks or were a technical worker under the direction of someone with unlimited authorisations. In case of having practice abroad, under the direction of someone with authorisations relevant to the foreign country.

Serbia

- responsible project designer: dipl.ing.-3 years, ing.-5 years
- responsible auditor: dipl.ing.-3 years, ing.-5 years
- responsible works manager: dipl.ing.-3 years, ing.-5 years
- responsible supervisor: dipl.ing.-3 years, ing.-5 years
- urban and spatial planner: 5 years

Slovakia

- “Authorized Civil Engineer” = responsible project designer: design (signing of building plans)
- “Building Site Manager” = responsible works manager: works managing at the building site
- “Building Supervisor” = responsible supervisor: supervision of the execution
- “Professional Competence for Energy Performance of Buildings”

- obligatory membership
- not obligatory membership
- not obligatory membership
- not obligatory membership

“Authorized Civil Engineer”:

- 2<sup>nd</sup> degree of university education + min.3 yrs professional experience after the graduation (=vast majority of our authorised civil engineers) OR
- 1<sup>st</sup> degree of university education + min.7 yrs professional experience after the graduation\* OR
- education other than in Act No. 138/1996 + min.7 yrs of professional experience after the graduation\*
- \* based on the clause from the Act No. 138/1996 – chamber approves such exemption

“Building Site Manager” and “Building Supervisor:

- 2<sup>nd</sup> degree university education + min.3 yrs professional experience after the graduation OR
- 1<sup>st</sup> degree of university education + min.5 yrs professional experience after the graduation OR
- secondary education + min.5 yrs professional experience after the graduation OR
- education other stated than in Act No. 138/1996 + min.7 yrs of professional experience)\*
- \* based on the clause from the Act No. 138/1996 – chamber approves such exemption

Other- “Professional Competence for Energy Performance of Buildings”

2<sup>nd</sup> degree of university education (different for 4 different categories according to the Act No. 555/2005)+min.3 yrs professional experience after the graduation

Slovenia

- responsible project designer: design (signing of building plans)

- responsible auditor: design auditing
- responsible works manager: works managing at the building site
- responsible supervisor: supervision of the execution
- responsible land surveyors: land surveying
  
- responsible project designer: univ.dipl.ing.-5 years, dipl.ing.-7 years
- responsible auditor: univ.dipl.ing.-10 years, dipl.ing.-15 years
- responsible works manager: univ.dipl.ing.-5 years, dipl.ing.-7 years, ing.-10 years, technician-10 (limited authorisations)
- responsible supervisor: univ.dipl.ing.-5 years, dipl.ing.-7 years, ing.-10 years, technician-10 (limited authorisations)
- responsible land surveyors: univ.dipl.ing.-3 years, dipl.ing.-5 years, ing.-5 years

7. and 8. Titles and required relevant practise: Austria

	Croatia	Czech Republic	Germany	Poland	Serbia	Slovakia	Slovenia
<input type="checkbox"/> univ.dipl.ing. (min. 4 years)	5 or 4 + min. 3y	3y	3y	5 + 2y + 1y - design; 5 + 0y + 2y - works management	3y	3y - design and works management and supervision	5y, land surveyor 3 y
<input type="checkbox"/> dipl.ing. (min. 3 years)							
<input type="checkbox"/> ing. (min. 2 years)							
<input type="checkbox"/> technician							
<input type="checkbox"/> 1st Bologna cycle							
<input type="checkbox"/> 2nd Bologna cycle							
<input type="checkbox"/> others: _____							

acc. to Act  
138/1996: 7y

\*limited authorisations

\*limited authorisations

**SUGGESTION:** Members who fulfill all conditions and are registered automatically:  
unlimited authorisations (design and works management and supervision):

**2nd degree university education (min. 4 years) + min. 3 years of relevant practice after graduation  
2nd Bologna cycle + min. 3 years of relevant practice after graduation**

**in all other cases (when applicants training/practical experience is not equivalent to the above suggested training/practical experience) chambers have to decide whether an applicant needs a training course with the duration of up to 3 years, a verbal aptitude test or further practical experience or can get a sort of limited authorisation.**

9. Fields of profession/specialisations of each of the above titles/licences:

	Austria	Croatia	Czech Republic	Germany	Poland	Serbia	Slovakia	Slovenia
■ Civil engineering		x	x	x		x		x
■ Electrical engineering		x			x	x		x
■ Mechanical engineering		x				x		x
■ Technological engineering						x		x
■ Mining and geotechnology						x		x
■ Land surveying		x		x		x		x
■ Architecture		x				x		x
■ Spatial planner						x		
■ Town planner						x		
■ Other:						x		

\* active in nearly 60 specialists areas

fire safety

fire safety and safety at work

building engineering  
sanitary installation engineering  
road engineering  
melioration and water engineering  
bridge engineering  
demolition engineering with the use of blasting materials

Complex architectural and engineering services and related technical advisory  
Complex architectural and engineering services and related technical advisory (with the exception of architectural services)  
Building Constructions  
Engineering Constructions  
Structural Design of Buildings  
Technical, Technological Equipment and Energy Installations of Buildings

**Case:**

**In a country of origin a licence/authorisation is not needed, a licence/authorisation is needed in a foreign country.**

**At the moment:**

**An engineer gets a licence/authorisation in a foreign country automatically.**





Slovenia 1st level: Ministry of Environment and Spatial Planning; 2nd level: local administrative court

**SUGGESTION: Body that is responsible for the claims against the decisions accepted in the entry process should be local administrative court.**

24. and 25. Entry costs and yearly membership costs:

	Austria	Croatia	Czech Republic	Germany	Poland	Serbia	Slovakia	Slovenia
Entry costs:	*	137 EUR	200 EUR	30-200 EUR	400 EUR		197 EUR	275 EUR
Yearly membership costs:	*	247 EUR	100 EUR	300-600 EUR	115 EUR		91 EUR	120 EUR

\* varies for each regional chamber

26. and 27. Definition of entry costs and yearly membership fee:

Entry costs are defined by:

Austria	chambers general assembly meeting
Croatia	chambers general assembly
Czech Republic by law	chambers general assembly
Germany	chambers general assembly, ministry of the land approves
Poland	chambers general assembly
Serbia	chambers general assembly
Slovakia	executive board of the chamber
Slovenia	chambers general assembly

Yearly membership costs are defined by:

chambers general assembly meeting
chambers general assembly
chambers general assembly
chambers general assembly, ministry of the land approves
chambers general assembly
chambers general assembly
chambers general assembly
chambers general assembly

**SUGGESTION: Entry costs and yearly membership fee should be defined by the chambers general assembly or chambers executive board.**

28. Ethics – possible penalties (fines, suspension of membership temporarily or for good, others, etc):

Austria	
Croatia	fines (137 EUR – 2055 EUR), suspension of membership temporarily (from 6 month till 5 years), admonition
Czech Republic	fines, suspension of membership temporarily or for good
Germany	fines (15.000 EUR) reprimand, suspension of membership
Poland	a reprimand or a reprimand with a demand to pass an exam in a defined period
Serbia	
Slovakia	written warning (reprimand in written), fine (penalty) up to 100,000 SKK (about 3,030 EUR), exclusion from the Chamber
Slovenia	fines, suspension of membership temporarily or for good

**SUGGESTION:**

**Common EU engineers ethics is needed.**

**Common possible penalties should be defined (written warning, fines from xx to yy EUR (penalty), suspension of membership (from 6 months to 5 years),**

**exclusion from the chamber for good, a demand to pass an exam in a defined period).**