"Economy, Society and Climate Change – The impact of mega trends in the Built Environment, Construction Industry and Real Estate"

"CONTINUOUS EDUCATION"

Dragoslav Šumarac Ph.D.Civ.Eng
Member of the Managing Board of the Serbian Chamber of Engineers;
Vicepresident of the European Council of Engineering Chambers

Serbian Chamber of Engineers

tufe2018

"The International Interdisciplinary Conference"

7-10 November 2018, Athens

European Council of Engineers Chambers

CONSIGLIO NAZIONALE DEGLI INGEGNERI

Serbian Chamber of Engineers

ARCHITECTS' COUNCIL OF EUROPE
CONSEIL DES ARCHITECTES D'EUROPE

MAGYAR MÉRNÖKI KAMARA

ΤΕΕ
ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΕΛΛΑΔΑΣ

BIngK
BUNDES INGENIEURKAMMER

tufe2018 "The International Interdisciplinary Conference"

7-10 November 2018, Athens

Serbian Chamber of Engineers

Serbian Chamber of Engineers - CPD

- ECEC on its 10th General Assembly (Athens, October 12, 2013.) established Working Group (WG) on CPD;
- Elected Chairman of WG was prof. dr Dragoslav Sumarac.
- Serbian Chamber was responsible for CPD of ECEC;
- Each member state of ECEC appointed a representative in WG on CPD;
- www.ecec.net/activities/cpd-lectures/

- The Assembly of the Serbian Chamber of Engineers **adopted a Decision of the Continual Professional Development - CPD for the members of the Serbian Chamber, on 25th April, 2014.**

- A Working Group was formed and named **Working Group of the Assembly of Serbian Chamber of Engineers for implementation of joint European program for Continual Professional Development.**

WORKING GROUP OF CPD

- President of the WG: **Dragoslav Šumarac, Ph.D.Civ.Eng, also and president of the WG of European Council of Engineers Chambers (ECEC) AISBL for implementation CPD**
- Member of the WG: **Ivana Magdelinić,** Acting Secretary of the Chamber

TASKS OF THE WORKING GROUP

- Implementation of a common European training program and coordination with The National permanent training program;
- Providing organizational technical conditions for the implementation of the training program;
- Implementation of electronic records of the participants of the continuous professional development program and the number of CPD points obtained (**Continual Professional Development Points**);
- Submitting a reports of the work to the Assembly of the Serbian Chamber of Engineers and the Executive Board of the ECEC.

THE FIRST PILOT LECTURE

- WG in cooperation with the Slovakian Chamber of Engineers held **the First Pilot Lecture** on 12th June, 2014.
- The topic of the lecture was **"Design of Concrete Road Bridges according to Eurocodes in Slovakia"**.
- **Prof. dr Jaroslav Halvonik**, Professor of the Slovak Technical Faculty, University of Bratislava was the lecturer.
- The lecture was held in the premises of the Slovakian Chamber of Engineers, in Bratislava, with live broadcast via video link, in chambers, members of the ECEC, with the possibility of two-way interaction between lecturer and participants.

85 members of the Serbian Chamber attended the lecture.

EN 1990, Basis of structural design, EN 1991 (Eurocode 1), Actions on structures

The Serbian Chamber of Engineers in cooperation with the European Council of Engineers Chambers (ECEC) organized a lecture on **the topic "EN 1990, Basis of structural design, EN 1991 (Eurocode 1), Actions on structures", by Rüdiger Höffer Ph.D.**, CE, Ruhr-Universität, Bochum, DE. The lecture was held on 15.05.2015.

The lecture was attended by **225** engineers.

BIM TECHNOLOGY

The first lecture in the field of **BIM technology** in the Serbian Chamber of Engineers, was held on December 3, 2013. The lecture was held in Serbian by **Zolna Murray**, BSc., **a specialist in the** practical application of modern design methods in construction and the range of **BIM.** She worked for more than 10 years in New Zealand, and in the United Arab Emirates, Hong Kong.

She presented her experiences on a large number of international meetings dedicated to BIM. She has held several noticeable **lectures in Belgrade and Novi Sad** in order to introduce our public with modern trends and achievements in design, in construction.

In the organization of the Serbian Chamber of Engineers and the European Council of Engineers Chambers (ECEC),a lecture on the topic **"Implementation of the BIM technology in the construction industry"** was held on September 15, 2016.

The lecture was held in order to introduce our engineers of all professions **with the most up-to-date achievements** in the field of application of information technologies in the service of the engineering profession, and especially with **BIM technology**, which became the standard in the application of information technologies in the construction industry.

The lecture was held in the **form of webinar** with the direct participation of lecturers from Slovenia and Croatia, prominent experts in this field: **Veljko Janjić**, director and founder of Bexel Consulting, a member of the Stanford University's CIFE Technical Advisory Committee, a member of the EFCA Task Force on BIM group and a member of the Executive Committee of BIM Slovenia, **who held the lecture from the Serbian Chamber of Engineers in Belgrade**; **Hrvoje Šolman**, the director of the company "Arctis", the expert in the field of design and management of complex facilities; **Mirko Jurčević**, technical director of the company "Intelika", technical experts in the field of information technologies applied in construction, **who held the lecture from the Croatian Chamber of Engineers in Zagreb.**

The lecture was directly transmitted to **Belgrade**, at the Chamber's headquarters, as well as in regional offices and regional centers of the Serbian Chamber of Engineers in **Novi Sad, Nis, Kraljevo, Valjevo, Cacak, Subotica, Kragujevac, as well as Pozarevac, Bor and Jagodina.** Then, in the companies "Strabag" d.o.o., "FormaPharm engineering Group" d.o.o. in Belgrade, Vrsac and Russia, "ED Jagodina" in Jagodina, Pozarevac at the Higher Technical School of Vocational Studies, "Telekom Srbija" branch in Nis and "Elektromreža Srbije" in Belgrade. The lecture was also transmitted directly by other engineering chambers, members of the European Council of Engineers Chambers: **Austria, Slovenia, Macedonia, Montenegro, Croatia and Bulgaria.** In Serbia, the total number of **participants** in this lecture was **832**.

The legal acts on digital signature in ECEC member countries and the experiences of the profession

Based on **the decision of the General Assembly of the ECEC** adopted in November 2014 in Brussels, and on the basis of a decision of the Working Group for CPD of ECEC, the Working group organized on January 28th, 2016 joint lecture on the topic: **„The legal acts on digital signature in ECEC member countries and the experiences of the profession".**

Lecture was transmitted to chambers, members of the ECEC from **Austria, Italy, Montenegro, Macedonia, Croatia and Bulgaria**. In addition to these chambers lecture was also available in the regional offices of the Serbian Chamber of Engineers in **Novi Sad, Nis, Kragujevac, Kraljevo, Valjevo, Subotica, Bor, Gornji Milanovac, Novi Pazar and Kostolac** in the form of webinar. Recognizing the importance of the webinar topic the Faculty of Civil Engineering in Belgrade, Faculty of Civil Engineering and Architecture of Nis, Faculty of Mechanical Engineering in Kragujevac, companies Strabag Ltd, Forma Pharm engineering Group Ltd. Belgrade and Moscow, as well as EPS Distribution - Jagodina Branch and PE Electric Power of Serbia, have joined also.

Austrian experience was conveyed by **Dr. Herbert Döller** from consulting company Döller Dr. Vermessung Ziviltechniker GmbH, who gave an lecture which was of great importance given the large experience of Austria in this area.

From Italy **Mrs. Martina Righetti**, from the Foundation Education Center Consiglio Nazionale degli Ingegneri joined the webinar. Mrs. Righetti presented the Italian model of using a digital signature and electronic issuance of building permits.

Secretary General of the Chamber of authorized architects and civil engineers of Macedonia, **Mr. Dimče Atanasovski**, presented **the experience of Macedonia**, which are largely used during introducing of the electronically signing of technical documentation with qualified electronic signature in Serbia and other Balkan countries.

Mrs. Anita Erak, representative of the Chamber of Engineers of Montenegro, **presented** the application of electronic signatures in **Montenegro.**

Serbia's experience in the use of qualified electronic signatures in the process of design and technical documentation as well as process of issuance of electronic building permits **was presented by** the vice-president of the European Council of Engineers Chambers, member of the Managing Board of the Serbian Chamber of Engineers, the President of the Working Group of the ECEC for CPD (Continual Professional Development) and the President of the Working Group of the Serbian Chamber of Engineers for the implementation of the CPD, **Ph.D Dragoslav Šumarac** Civ.eng.

Lecture was attended by **2.084 participants** from the Serbian Chamber of Engineers.

Basic informations

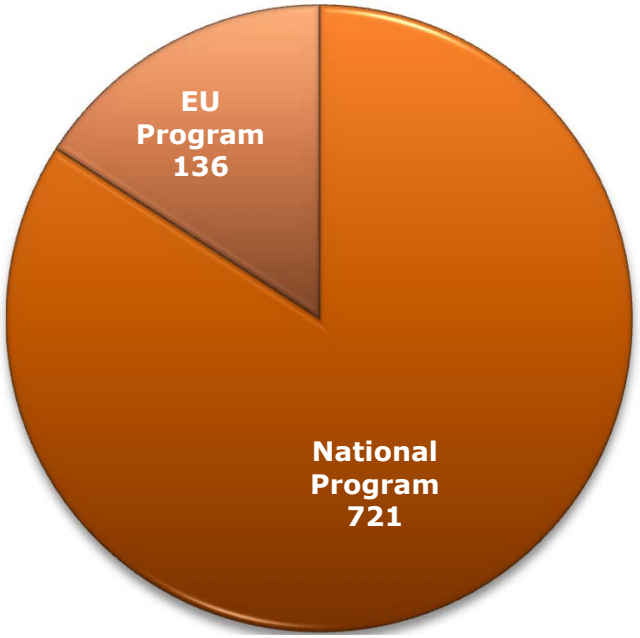
- The educational period lasts **5 years**;
- The first education period began to run from January 1, 2015;
- For each educational period, the Chamber member must acquire **100 points**;
- At least **15 points during one year**;
- The Chamber undertakes to provide a training program that will allow members a minimum of **20 points per year without paying a fee.**

Two parts of the program - National and Common European

- **National** training program - **80 points**;
- **15 points** national regulations;
- **65 points** new materials and technologies;
- The Managing Board established the Commission for Continual Professional Development in charge of the implementation of this part of the program;
- The Commom European Training Program is unique for all members of the European Council of Engineering Chambers whose implementation is in charge Working Group of Sebian Chamber of Engineers Assembly - **20 points**;
- **5 points European** regulations;
- **15 points** new materials and technologies.

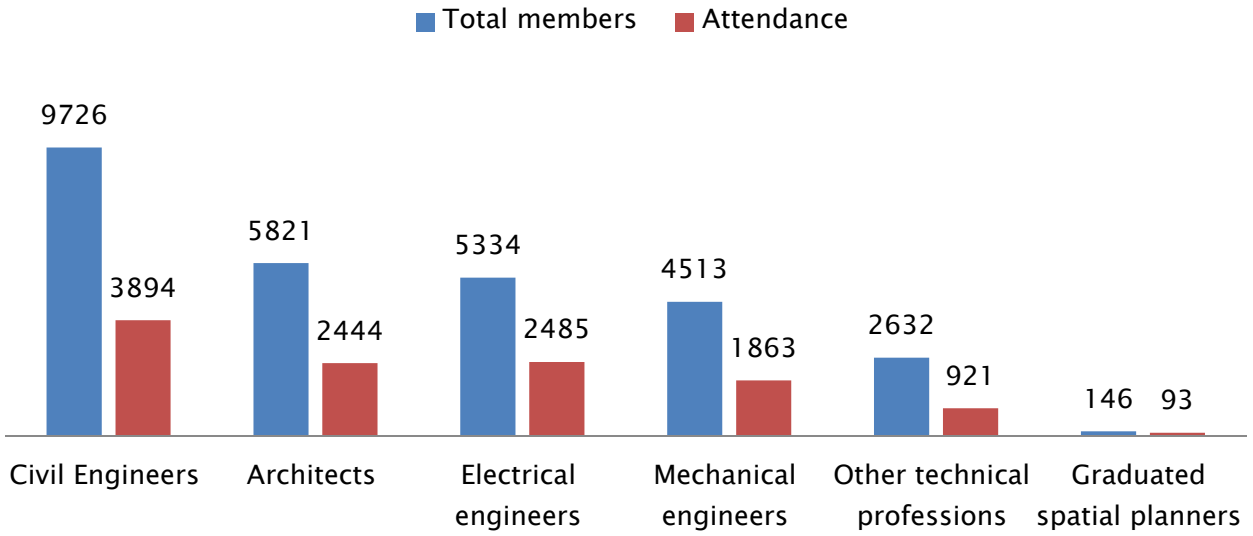
CPD STATISTIC

Lectures	857
Lectures from the National program	721
Lectures from the European program	136
Points awarded	356640
Total participants	60556



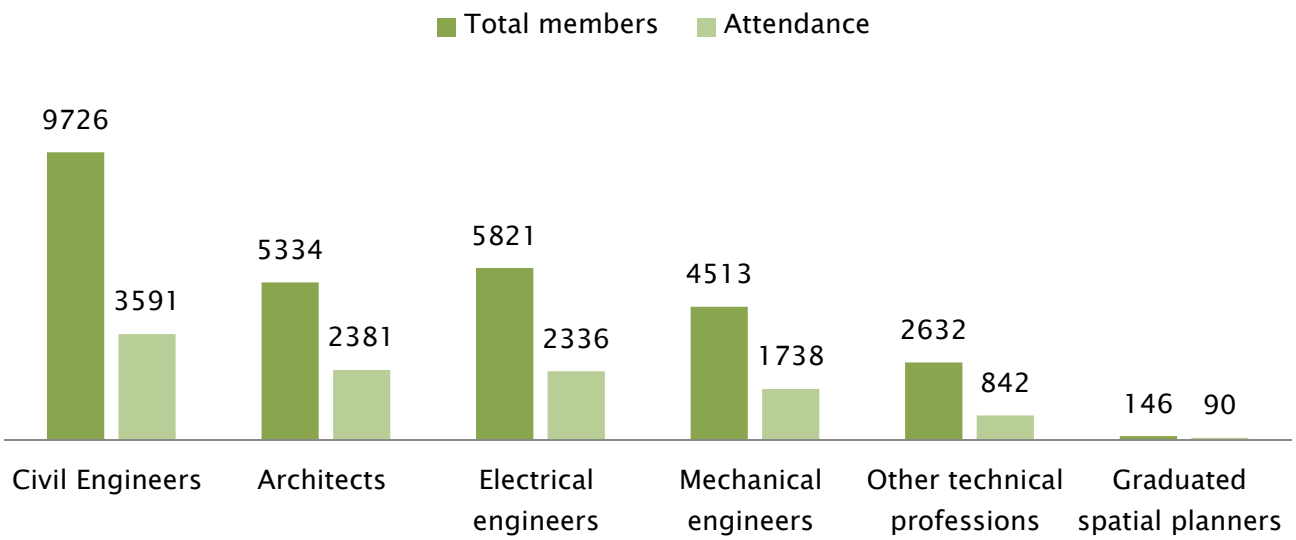
By professions (National and European program)

Profession	Total members	attendance	%
Civil Engineers	9726	3894	40,00%
Architects	5821	2444	42,00%
Electrical engineers	5334	2485	46,60%
Mechanical engineers	4513	1863	41,30%
Other technical professions	2632	921	35,00%
Graduated spatial planners	146	93	63,70%
Total:	28172	11700	41,50%



By professions (National program)

Profession	Total members	attendance	%
Civil Engineers	9726	3591	36,90%
Architects	5334	2381	44,60%
Electrical engineers	5821	2336	40,10%
Mechanical engineers	4513	1738	38,50%
Other technical professions	2632	842	32,00%
Graduated spatial planners	146	90	61,60%
Total:	28172	10978	39,00%



ARCHITECTS' COUNCIL OF EUROPE
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ACE CPD Europe

Continuing Professional Development (CPD) is a structured way of maintaining and developing your competence as a qualified professional by engaging in regular learning activities.

Your CPD can be either structured or informal. "**Structured**" CPD will often be in a classroom, though it can also be through distance learning or online learning.

Structured CPD activities will have clear learning aims and outcomes which will have been given to you by a teacher, speaker or tutor.

https://www.ace-cae.eu/

Informal CPD

Will usually mean quick, free and self-directed activities, such as reading.

It may not always be obvious that these informal activities are CPD, but if you can learn from them, they can help you to stay up to date in a general way.

By undertaking CPD activities regularly you will, as a professional and qualifying architect, be able to:

- Stay professional
- Ensure your competence
- Keep up to date
- Stay ahead of the game
- Enhance and improve your performance
- Keep growing and progressing
- Remain competitive and employable
- Manage and plan your career
- Enhance your client offer
- Increase your potential
- Widen your business and career prospects
- Practice anywhere

https://www.ace-cae.eu/

To help participating architects to stay ahead and up to date, ACE has initiated a list of quality European CPD system for architects, endorsed by ACE Member Organisations in various EU Member States.

While they are all very different in content and emphasis, these **CPD systems all meet the minimum agreed European quality standards**.

They offer you sound and safe CPD. And as a bonus, **all the European bodies listed here recognize each other's CPD**, making it easier for you to do CPD wherever you are.

In all cases, one learning hour equals one international CPD credit.

https://www.ace-cae.eu/

ACE MEMBERS ORGANISATIONS

The Architects' Council of Europe is composed of 43 Member Organisations which are the national regulatory and professional representative bodies in the EU Member States, the accession countries, Switzerland and Norway.

Through its members, the Architects' Council of Europe **represents the interests of over 565,000 architects from 31 countries in Europe** (Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom).

https://www.ace-cae.eu/

CPD Systems guidelines

Availability of information about the system and CPD material. System operated or recognised by an ACE Member Organisation. Quality based assessment and regular review of CPD material in conformity with these general guidelines.

Specific professional skills to be achieved, aimed at professional profiles.

Organised by structured knowledge areas and defined by different training types, including relevant self-directed learning.

Method of financing that makes the CPD material affordable.

It will be acceptable that a CPD System has part of its contents dedicated to education and/or information for non-professionals, citizens and/or students.

CPD material guidelines

1. Contents and objectives meet the needs of architects and other related professionals in terms of Continuous Development.
2. Training objectives are best suited to the development of professional practice or a public service by architects and professionals.
3. Material is generic and non-marketing oriented.
4. Material content is adequate and clearly defined for professional context in which it is delivered.
5. Material is accurate and current and available to a majority of professionals.
6. Resources are adequate to support the learning objectives.
7. Learning method and scope are adequate to meet the intended outcome.
8. Different editions of the same material have consistent learning outcomes.
9. Assessment of participants learning should be provided.
10. Quality assessment methods are in place or planned.

List of Continuous Professional Development (CPD) opportunities in Europe currently includes events from 15 countries
https://www.ace-cae.eu/access-to-the-profession/continuing-professional-development/events-in-europe/

European Association for Architectural Education purpose is to advance the quality of architectural education and also to promote the quality of architecture in Europe. The Association provides a forum for generating information on aspects of architectural education and architectural research.

ΤΕΕ
ΤΕΧΝΙΚΟ ΕΠΙΜΕΛΗΤΗΡΙΟ ΕΛΛΑΔΑΣ

The Technical Chamber of Greece (TEE-TCG)

Established in 1923.

It is a public legal entity, with an elected administration.

According to the rules of the Greece as a legal entity of public law, it is supervised by the Ministry of Infrastructure for Transport and Networks.

Headquarters of TCG are in Athens and it has **branches in 17 geographical regions.**

All qualified licensed engineers in Greece are registered members of the Technical Chamber of Greece.

According to official data in January 2016 TCG had:

- 104,444 **active** members and
- 21,937 **retired** honorary members.

Goals of TCG:

- Developing Science and Technology in sectors related to the disciplines of its members
- for the economic,
- social and
- cultural development of the country,
- in accordance with the principles of sustainability and environmental maintenance.

Areas of Engineering Specialization:

1. Civil Engineer,
2. Architect Engineer,
3. Mechanical Engineer,
4. Electrical Engineer,
5. Rural and Surveying Engineer
6. Chemical Engineer,
7. Mining and Metallurgical Engineer,
8. Naval Engineer,
9. Electronic Engineer.

Requirement

The requirement to become a member of the Technical Chamber of Greece is to be:

- licensed as a qualified engineer and
- a graduate engineer faculty of Greece universities or equivalent schools abroad.

The Technical Chamber of Greece is the authorized body. Its function is to issue permits of engineers of all disciplines, graduated in Greece or abroad.

The license is issued after successful attendance on lectures, organized by the TCG.

Organizational aspects

In higher education some kind of continuous training was established with the help of **Sabatini newspapers** for attending research centers and universities.

The emphasis is given to the international presence of faculty members and this refers to the current decision for their development or choice in relation to their overall teaching and their overall scientific and research activity.

Every four years, the Minister of Education, after public consultation and the assent of the Authority for Quality Assurance and Certification in Higher Education- ADIP (Law 4009/2011) draws up the **National Strategic Programe for Higher Education**.

The National Strategic programe for Higher Education primarily involves midterm objectives, guidelines, investment plans, programes or individual actions of national policy for higher education and may be revised on an annual basis. The **National Strategy Programe for Higher Education** is implemented through **Higher Education Institutions (HEIs).** The latter use various planning agreements in order to incorporate the relevant actions.

MAGYAR MÉRNÖKI KAMARA

MMK = Hungarian Chamber of Engineers;
MEK = Chamber of Architects of Hungary.

Chamber work (MMK and MEK) is regulated by the Law on Professional Chambers.

According to the National Law, the chambers may form a nonprofit enterprise who are engaged in the organizing of professional and compulsory training. The only requirement is that any company can not be in any business relationship with other companies.

Permanent training is conducted by the territorial units of the Chamber. They also make a list of membership, list of training and issue certificates of actual status for each of their members.

Members of the chamber can access PT data through the web (similar to Serbian Chamber of Engineers).

Permanent training is regulated by the Government Regulation.

https://www.mmk.hu/

PERMANENT TRAINING

Permanent training consists of two parts:

- **Professional,**
  A period of PT is five years.

  There is web access to databases on current lectures (and applications) and lecture archives.
  It is necessary **to collect 20 points in 5 years** (for members over 70 years 5 points for 5 years). **It is necessary to attend lectures in total 6 hours a year.**

  Central chambers have PT Expert Committees, which decide on specific lectures, conferences, expert visits ... about the value of the same (in points, which can be 0.5; 1; 1.5 ...). They also decide on individual applications for recognition of points, eg. for award-winning competition works etc.

PERMANENT TRAINING

• **compulsory training** (it's mostly about professional-legal issues, monitoring and knowledge of regulations ...). Members were released in the first five years (because they decided it in order to become members).

The themes for compulsory training are made by the central Chamber and there are valid for all regional chambers, and are approved by the competent ministry. The same is true for lectures compulsory training.

Compulsory training in MEK is entrusted to the companies, and in MMK it is solved as well as professional development, in its organization.

Compulsory training is listening once every five years in lectures lasting a total of 6 hours. There is no exams, just attendance on lecture.

Price of lectures are from 7500 to 10000 + afa = 12700 forints (gross 3800 to 5000 dinars). This refers to a one-day lecture of 6 hours, which brings 4 points.

1. Has the PT introduced ie regulated by the Law, the Rules, the decision....? MMK and MEK are implementing a permanent program or going through some authorized institutions with which they have an agreement?

It is regulated by the **Law of chambers**. MMK makes decisions independently, the second Chamber makes decisions through its own company (like a public company) which manages and determines prices.

https://www.mmk.hu/

2. There are two types of exams (professional part - 1 year and legally part -1 in five years)?

There is no exams, just attendance on lectures(for 6 hours in a five-year period), and a professional part, various lectures, promotions of various products, visits fairs, professional excursions, which are valued through the PT Expert Committees.

3. How many points and in how many years are they getting and who determines the number of them?

PT Chamber of Experts, 4 points x 5 years. It is determined by the Government's regulation on the PT.

4. Can the license be lost in case of not fulfillment or not getting a points?

In the line of duty the secretary of the regional chamber inform about the temporary prohibition of using a license for a maximum of one year - until the maximum time is to make it up a points. After that, the license can be lost permanently.

5. How many lecturers are paid and what is the registration fee?

Lecturers are paid from 7500 to 10000 + afa = 12700 forints (gross 3800 to 5000 dinars). This is the price for a one-day lecture of 6 hours, which brings 4 points.

6. At the end, the tests are submitted and keeped in the register of the Chamber?

Yes, every participant in further professional training is immediately registered in the chamber registry, where the system keeps the performance in the personal meny of the colleague, so that an engineer can be informed and fill out his continuous educational obligation.

7. Whether PT has come to life and do you know how many lectures have been made?

Yes, completely. It is applied there for over ten years, they are working on the digitization of the entire system (that everything can be done from the - both listening and written tests).

CONSIGLIO NAZIONALE DEGLI INGEGNERI

Acts:

- Regulations of professional competence update (adapted by NCI after positive opinion on the changes that are made by Minister of Justice)
- Professional competence updating guide

Authorities:

- National Council of Engineers (CNI),
- Local committees,
- Appropriate self-governing bodies and their broadcasting bodies,
- Other persons or organizations authorized by CNI.

https://www.tuttoingegnere.it/

Consiglio Nazionale degli Ingegneri

Professional competence update is mandatory for all registered engineers and represents the measure and minimum for profession achieving.

Updating can be achieved through continuous professional training courses.

A unit of continuous professional training is a Professional Training Point – **Credito Formativo Professionale** (CFP).

The registered engineer must have at least **30** CFPs to be able to perform a profession.

The maximum amount of CFPs that member can achieve on December 31 is **120**.

Cancellation of membership and **re-enrollment**:

- In the case of membership cancellation, for each calendar year are withdrawn 30 CFPs from the register;
- In the case of subsequent re-enrollment, the member will be granted a CFP equal to the one he owned in the 1st January of the year in which the membership was canceled, reduced by 30 CFP per year;
- In the case that the rejected CFP is 0 or less than 0, 0 will be recognized.

Calculation method:

$$CFP = CFP_{ly} - CFP_w + CFP_a + CFP_c$$

where:

CFP	amount of the CFPs at the beginning of the new year
CFP_{ly}	amount of the CFPs at the beginning of the previous year
***CFPw**	amount of the withdrawn points
CFP_a	amount of the accumulated points
CFP_c	amount of the CFPs that are approved for exemptions during the year

* **CFPw** is determined:

a. In the case of registration for the period from January 1 to June 30, amount of withdrawing point are 30,

b. In the case of registration for the period from July 1 to December 31, amount of withdrawing point are 15.

CFPs can be achieved:

- Initial points at the time of enrollment in the Register:

  a. Within 2 years of receiving the qualification, amount of CFPs that are provided is **90**;

  b. In the period of **2 to 5 years** of receiving the qualification, amount of CFPs that are provided is **60;**

  c. After 5 years of receiving the qualification, amount of CFPs that are provided is **30**;

- Through formal and informal activities.

Main conditions:

A member must have at least 5 CFPs related to legal regulations in the field of "Ethics and Professional Ethics".

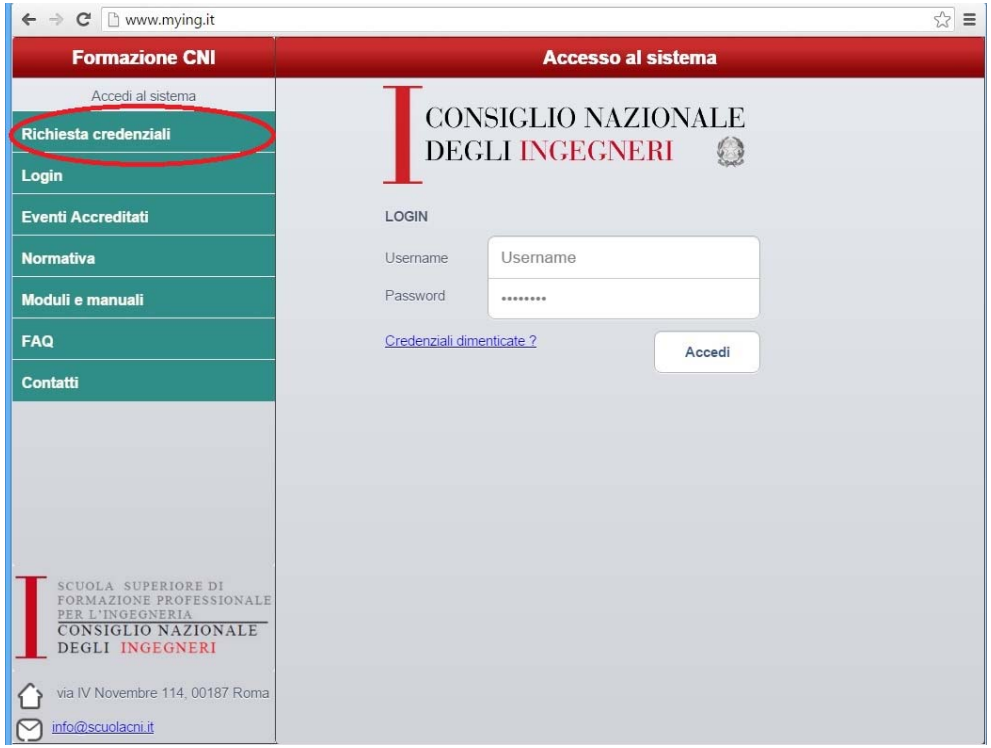
The registered engineer must have at least **30** CFPs to be able to perform a profession.

Lecturers are required to submit their biographies to the organizers before planned events or courses for publication on the MyIng platform.

Checking knowledge is mandatory after lectures.

MyIng

is a web **platform** for continuous improvement where members can access with their credentials. The platform provides information on current lectures, courses, expert visits, provides access to policies and instructions for professional development, application for professional events, technical support etc (*picture 1*).



Picture 1. MyIng platform

https://www.tuttoingegnere.it/

Consiglio Nazionale degli Ingegneri

	Description	Limit	Predicted points
Informal learning	Personal or distance attendance at recognized courses and seminars, including those required by law		1 = 1 CFP
	Participation in conferences and other events specifically identified by the CNI	max 3 CFPs per event max 9 CFPs per year	1 hour = 1 CFP
	Participate in qualified technical visits at places of interest	max 3 CFPs per event max 9 CFPs per year	1 hour = 1 CFP
	Participation in training phases		Assessed of case to case

		Description	Limit	Predicted points
Informal learning	Informal update after the activities in the field of engineering	Informal update related to proven professional activities		15 CFPs per year
		Certification of professional skills by order		max 15 CFPs per year
	Informal updates which are consequence from studies, surveys and patents	Qualified publications		5 CFPs per publication
		Patents		10 CFPs per patent
	Informal updates which are consequence from organizational, coordination and study activities	Qualified participation in organizations, working groups, technical and study commissions in Italy and abroad, recognized by the CNI		max 5 CFPs per year
		Participation in the state exam commissions for performing the profession of engineers / junior engineers		3 CFPs
	Informal update as a consequence from solidarity activities carried out in times of disaster	Participation in social / humanitarian interventions regarding natural disasters inherent in the professional sphere		Assessed of case to case

	Description	Limit	Predicted points
Formal learning	The presence of first and second level master's courses, doctoral studies, research		30 CFPs per year frequency (partial)
	Frequency of presence to final exam		Assessed of case to case

Training organisation

Courses, seminars, lectures and other forms of training can be realized through the **attendance** of a lecturer or through **videoconferencing**.

Courses may include theoretical and practical part.

Knowledge check can be examine:

- Oral exams,
- Tests,
- Quiz programs,
- Live debates etc.

and have to be done immediately after lectures, before leaving the classroom.

Professional development of geodetic engineers in the Republic of Slovenia

- **The Law of geodetic activity,** Article 16, prescribes compulsory professional development of geodetic engineers, which can be viewed on the next website http://www.uradni-list.si/1/objava.jsp?urlid=201077&stevilka=4216
  - A geodetic engineer should receive **6 credit points annualy**
  - If the geodetic engineer does not get points in the current year, in the first month of next year, the geodetic map will be taken away
- Detailed way of scoring is specified by the Rulebook on conditions and procedures for evaluation, monitoring, validation and recording of compulsory professional development of geodetic engineers, which can be viewed on the next website https://www.uradni-list.si/glasilo-uradni-list-rs/vsebina?urlid=201110&stevilka=381

Continuing education in the Federal Republic of Germany

- Continuing education is **obligatory for members and Publicly Certified Experts**. But due to federal legislation the conditions of this obligation and its control is ruled **differently in the 16 Engineers Chambers.** Most Chambers only rule the obligation of continuing education without further conditions and rules. It is l**eft up to the members to organize their own education**.
- Recently two chambers stated rules about how many hours per year a member has to attend education courses. The amount of hours varies **between 6 and 12 hours within two years**. If asked the members have to prove the amount of hours of attended courses. In Northrhine-Westfalia members **may attend only courses approved and authorized by the Chamber**. It is expected that other Chambers will follow with similar obligations in the near future.

** Text is downloaded from the official website of the Federal Chamber of Engineers* https://bingk.de/english-summary/

CONCLUSIONS

- The European Council of Engineers Chambers is struggling **for the compulsory of continuous professional development (CPD) in all engineers chambers in Europe.**
- The ECEC has a clear attitude of keeping about the free professions and the freedom of movement across EU and strengthening common market of EU. This is a key of social and economic development factor in the member states of the **European Union**, as well as in the countries candidates for membership in the European Union.
- One of the most important tasks of the European Council of Engineers Chambers is, **through continuous professional development** to equalize all engineers throughout Europe and give them the opportunity to move freely from country to country, as well as to protect the common market from engineers coming from Asia and other continents.

Thank you for ATTENTION