



# Certification „European Railway Engineer“

(EURAIL-ING)



## Development of the railways in Europe

The European Railways are growing together more and more. Country borders are no longer railway borders. The national rail networks are being opened for third users.

EU regulates the all-European harmonization of technical matters and railway operation. The market of railway industry and –economy orientates itself more and more in an European way.

The process of transition from national railways to railway companies is progressing. Companies compete in all of Europe for contracts. This requires great flexibility on behalf of the engineers.

Major tasks and duties that were until now the responsibility of the railways are being assigned to others.



## New requirements on the railway engineers

The changes with the railways and the railway industry result in new requirements on the railway engineers.

The railway engineer must prove that he is prepared for these new requirements. This requires a continuous adaption and extension of the potential of knowledge and abilities. In order to document this, internationally acknowledged references and certificates are needed.

- **The railway engineer must expand and document his special qualifications in order to stand his ground in the future at railways, administrations and private companies.**
- **The railway companies will place orders only with enterprises that dispose of qualified personnel and that can prove this.**
- **Enterprises that tender for contracts in the railway sector must prove that they dispose of sufficiently qualified railway engineers.**



## **Certificate "European Railway Engineer – EURAIL-ING“**

**The certificate „European Railway Engineer“ is the proof of qualification of engineers and enterprises for the performance of engineering services in the railway sector!**

According to a unified quality management the Union of European Railway Engineer Associations – UEEIV conveys the certificate upon application.

### **In detail, the certificate**

#### **➤ for the railway engineers:**

- shall serve as proof of their capabilities as specialists,
- shall enhance chances while applying for employment,
- shall enhance the possibilities of professional development and
- shall make the professional mobility within Europe easier.

#### **➤ for the railway authorities and enterprises**

- shall provide more surety when selecting and awarding contracts to outsiders.

#### **➤ for the enterprises of the railway industry and economy**

- shall enhance better application chances during invitations to tender by proof of availability of specialists
- shall guarantee safeguarding of a high-quality service and
- shall serve as selection criterion for employing of railway engineers.



## **Purposes of the certification:**

- improve position, role and responsibility of the engineer within the society,
- create a basis for mutual acknowledgement of professional qualification in Europe,
- promote professional training and qualification of engineers by permanent review of requirements,
- provide to employers expressive documents regarding the entire professional training of an engineer,
- give enterprises the possibility to make publicity with the employment of certified "European Railway Engineers" (EURAIL-ING) and
- at the same time encourage the railways to award contracts in the frame of calls for tenders with priority to those enterprises which employ certified personnel.

# Certification „European Railway Engineer“

Excerpts from the handbook:

## Targets

Engineers (also Bachelor and Master) who have expert's railway knowledge or who have gathered corresponding knowledge through several years of practical work for and/or with the railways will be issued a document certifying their capability to perform in this field.

## Requirements

Certification can be applied by railway engineers as well as persons with an adjacent academic training (natural sciences, economics, law). This second group can only be admitted if an at least ten year period of engineer activity can be documented.

Railway engineers are engineers who have a diploma (also Bachelor and Master), test certificate or state examination and are working with railways, railway administrations and railway authorities, transport enterprises and transport administrations, in railway-related research and education at universities and colleges and/or enterprises, who plan, build and furnish railway-related materials, plants and vehicles for the institutions mentioned above.

## Studies

- Degree of engineering study at a state-recognised European university, college or specialised institute of higher learning **or** training of same level.
- Duration of studies: at least 3 years (6 semester) or a part-time study of equivalent length.
- Extension of special knowledge of an engineer study through railway specific knowledge. (traffic system theory, vehicle operation, electric railways, traffic monitoring systems, land based transport (incl.. railway operations), driving dynamics, traffic construction, ergonomics, automatization technology, environment and traffic, traffic-technological basics, information technology, logistics, quality management, traffic management, marketing, business administration, environmental-, contract-, liability- and European law, standards, patent law, Geodesy, regulation of railways).
- Knowledge of professional language in at least one foreign language.

## Practical experience

- Nationally sponsored state examinations and/or examinations of the railways.
- At least three and/or four years practical experience, depending on the duration of studies, in a European country.
- In case of study degrees that are not railway-specific additionally:
  - \* at least two semesters of a study broadening the railway-specific knowledge or
  - \* an additional railway-specific education or
  - \* a ten-years work with railways, authorities or enterprises active in the railway field.

**Further education:** Proof of participation in further education courses within the last three years.

## Application documents:

- The application form
- A curriculum vitae in tabular form
- Proof of education and further education (copies of certificates)\*\*\*
- Proof of subject of study and examination subjects
- Proof of state examinations and railway-specific examinations\*\*\*
- Proof of duration and type of activity in the railway sector\*\*\*
- Proof of participation in projects and achievements in the field of technical engineering\*\*\*
- Proof of language knowledge\*\*\*
- Proof of nationally sponsored state-acknowledged examinations and/or examinations of the railways\*\*\*
- Proof of further education measures during the last three years\*\*\*

\*\*\* Copies certified by the employer or national engineer association required.

## Additional basic requirements:

1. Minimum age of applicants: 28 years.
2. Applicants and title holders shall comply with the rules of conduct.
3. The holder of the certificate is entitled to bear the title of "European Railway Engineer" in public. Copies of the certification document may be taken to the personal files of the enterprises. The enterprises have the right to make publicity with certified employees and shall express, when tendering, that European Railway Engineer are working in the respective areas. Principles have the right to request respective evidence or to consult the certification register of UEEIV.
4. The amount of certification fees is € 220. For members of UEEIV member associations, this amount is reduced to € 150. In case the application is rejected, this amount is refunded in partpartly only.

**Applications for certification shall be submitted to the  
Central Certification Office - UEEIV, Kaiserstraße 61, D-60329 Frankfurt am Main, Germany**

# Code of Conduct for European Railway Engineers

The code of conduct is an additional guideline and does not replace the engineer's commitment to the code of honour to which the engineer is committed in his native country.

All persons enrolled in the certification register are bound to an awareness of the significance of science and technology to mankind and their own responsibility to society within the framework of their professional activity.

They carry out their occupations in harmony with generally accepted rules of morality and civilisation within European social structures and recognise, in particular the personal dignity of all those with whom they work and their legitimate interests.

In this sense, they obligate themselves to adhere to, and uphold, the following code of conduct.

## Personal Conduct

The railway engineer shall maintain his professional knowledge at the highest possible level to achieve outstanding performance in accordance with current regulations and consideration for the law of the country in question.

His occupational integrity and his intellectual honour ensure unbiased analysis and judgements of a situation as well as his adequate decisions.

He is conscious of his moral obligation to confidentiality in every business agreement to which he has voluntarily become party. He accepts no payments in connection with business agreements which are not agreed to by the employer.

He affords proof of his standing as an engineer in that he participates in the activities of his occupational associations, particularly in those which further the profession and contribute to the on-going education of their members.

The railway engineer only represents himself by title when he is legally entitled to do so.

## Occupational Conduct

The railway engineer accepts only those tasks for which he is fully qualified. He relies on collaboration with appropriate experts for assignments that exceed his competence. He accepts responsibility for the organisation and execution of his assignments.

He provides a high level technological service. During the fulfillment of a task he takes all measures required in order to:

- \* ensure security of people and things,
- \* ensure and support a healthy and attractive environment for humans.

The railway engineer advocates the development and operation of environmentally friendly traffic systems, in a meaningful context of the national economy.

He encourages fair competition between transport carriers and the creation of corresponding skeleton conditions. He also encourages the consequent application of new techniques, processes and technologies. He engages in an intensive international exchange of information thus promoting the assimilation of European railways on a high level.

## Social Conduct

The railway engineer shall:

- respect the personal and occupational rights of his superiors, his colleagues and his subordinates. He will treat their needs and suggestions with fairness to the extent that these fall within the scope of the laws and the ethics of his profession.
- show respect for nature, environment, health and safety and work toward the well-being of mankind.
- supply the public, -to the extent that this lies within the scope of his responsibility-, with clear information so that it may arrive at an appropriate understanding of technical problems.
- show the greatest respect for traditional and cultural values of the countries in which he carries out his profession.

Sender:

Phone:

E-Mail:

Fax.:

**UEEIV  
Central Certification Office  
Kaiserstraße 61**

**D-60329 Frankfurt a. Main**

.....  
*place / date*

### **Certification request for „European Railway Engineer – EURAIL-ING“**

I request the certification as „European Railway Engineer – EURAIL-ING“.

With my signature I acknowledge the granting conditions according to the handbook and the rules of conduct without objections. I declare that no prior are documented and no judicial processes are ongoing.

I agree / do not agree\* with the storing of my personal data in the central register and with the publication of the successful certification in the announcements of the UEEIV and of the regional associations.

I am aware that the right to bear the title expires after 10 years. It may extended by application for another 10 years if all conditions applied are met.

\* Please delete if not applicable

.....  
*(signature)*

For personal data see backside

Attachments (all documents in duplicate, copies certified by the employer required.)

- A curriculum vitae in tabular form (function, professional experience)
- Proof of education and further education (copies of certificates)
- Proof of subject of study and examination subjects
- Proof of state examinations and railway-specific examinations
- Proof of duration and type of activity in the railway sector
- Proof of participation in projects and achievements in the field of technical engineering
- Proof of language knowledge
- Proof of nationally sponsored state-acknowledged examinations and/or examinations of the railways
- Proof of further education measures during the last three years

**Personal data:**

Name: ..... First name: .....

Date of birth: ..... Gender.....

**1<sup>st</sup> subject of studies:** .....

Focus Topics/ Specialisation: .....

Educational institute: .....

Standard studying period: ..... Practical training (period): .....

Final examination and/or academic degree: .....Date: .....

**2<sup>nd</sup> subject of studies:** .....

Focus Topics / Specialisation: .....

Educational institute: .....

Standard studying period: ..... Practical training (period): .....

Final examination and/or academic degree: .....Date: .....

Practical experience: ..... Years

Special examinations: .....

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Language knowledge: .....

Further education measures / professional conventions / symposiums / congresses / publications within the last three years:

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Professional title: .....

Conferred by: .....Date: .....

Participation in special projects with the responsibility as:

.....

.....

These data are proven by the personal data record and/or by special documents.

.....  
[Confirmation by the employer]

.....  
[signature]