

Certification "European railway engineer"

(EURAIL-ING)



Development of the railways in Europe

The European railways are growing closer together.

State borders are no longer railway borders. The national rail networks have been opened for third parties.

The EU regulates the overall European harmonisation of the technology and the rail services.

The market of the railway industry and the railway economy is increasingly focussed on Europe.

The process of transforming state railways into commercial undertakings is progressing. Firms are participating in invitations to bid all across Europe. This requires great flexibility from the engineers.

Major tasks and responsibilities that were previously carried out by the railways are being outsourced to other companies.



New requirements to be met by railway engineers

The changes on the railways and in the railway industry have resulted in increased requirements to be met by the railway engineers.

The railway engineer must prove that he is prepared for these new requirements. This means he must continuously expand and adapt his specialist knowledge. Internationally recognised diplomas and certificates are needed to document this.

- **The railway engineer must expand and produce evidence of his special qualifications in order to find employment with railways, authorities and contracting firms.**
- **Railway administrations will place orders only with firms that employ qualified personnel and can also prove this.**
- **Firms that tender for contracts in the railway sector must prove that they employ railway engineers who are sufficiently qualified.**



Certificate "European Railway Engineer - EURAIL-ING"

The certificate "European Railway Engineer" verifies the qualification of engineers and firms for the performance of engineering services in the railway sector!

Following a quality assurance procedure, the **Union of European Railway Engineer Associations – UEEIV** is authorised to issue certificates upon request.

In detail, the certificate provides

➤ **for the railway engineers:**

- motivation for further personal development,
- improved opportunities for employment,
- enhanced possibilities of professional development and
- easier professional mobility within Europe.

➤ **for the railway authorities and firms**

- greater security when selecting contractors and awarding contracts.

➤ **for firms in the railway industry and business**

- a better chance of being awarded contracts due to proof of availability of specialists
- a guarantee of the assurance of high-quality services and
- a selection criterion for employing railway engineers.



Purpose of the certification:

- to improve the position, role and responsibility of the engineer within society,
- to provide a basis for mutual acknowledgement of professional qualifications in Europe,
- to promote professional training and qualification of engineers by continual review of requirements,
- to provide employers with meaningful documents about the entire professional training of an engineer,
- to give firms the possibility to advertise with the availability of certified "European Railway Engineers" (EURAIL-ING) and
- at the same time encourage the railways to award contracts in the framework of calls for tenders giving priority to those firms that employ certified personnel.

Certification "European Railway Engineer"

Excerpts from the handbook:

Targets

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

Requirements

Railway engineers or persons with an associated academic training (natural sciences, computer science, business management, economics, law) may apply for the certification. Persons from this second group can only be taken into consideration if they can prove that they have worked in engineering over a period of ten years.

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

Studies

- Completion of engineering studies at a state-recognised European university, college or specialised institute of higher education.
- Duration of studies: at least 3 years (6 semesters) or part-time studies of equivalent length.
- Railway-specific knowledge in addition to the specialist knowledge gained through a special subject of engineering studies (traffic system theory, vehicle service, electric railways, traffic safety systems, overland transport engineering (incl. railway operation), dynamics of vehicle movement, transport engineering, ergonomics, automation technology, environment and traffic, technical foundations of traffic, information technology, logistics, quality assurance, traffic management, marketing, business economics, environmental, contractual, liability and European law, standardisation, patent law, geodesy, railway guidelines, railway standards).
- Knowledge of professional terminology in at least one foreign language.

Practical experience

- Nationally sponsored state examinations and/or examinations held by the railways
- At least three or four years of practical experience, depending on the duration of studies, in a European country.
- In the case of 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 five-year occupation with railways, authorities or firms active in the railway field.

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

Application documents: (in duplicate: original + copy)

- 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 occupation 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-recognised examinations and/or railway examinations of the railways ***
- proof of further education courses during the last three years ***

*** Copies certified by the employer and/or engineering 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 added to the personnel files of the firms.
The firms have the right to advertise with certified employees and shall indicate, when tendering, that European Railway Engineers are working in the respective areas. Employers have the right to request appropriate evidence or to consult the certification register of the UEEIV.
4. The certification fees amount to € 220. For members of UEEIV member associations, this amount is reduced to € 150.
If the application is rejected, this amount will be refunded only in part.

**Applications for certification should be addressed to UEEIV, Kaiserstrasse 61, D-60329 Frankfurt/Main,
Tel.: +49 69 25 93 29, Fax: +49 69 25 92 20, e-mail: certification@ueeiv.eu, www.ueeiv.eu**

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 an 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. They recognise, in particular, the personal dignity of all those with whom they work. With this in mind, they undertake 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 professional integrity and his intellectual honour ensure unbiased analysis and judgements of a situation as well as his respective decision.

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 gives evidence of his standing as an engineer by participating in the activities of his professional associations, particularly those which further the professions and contribute to the on-going education of their members. The railway engineer only uses his title when he is legally entitled to do so.

Professional conduct

The railway engineer accepts only those tasks for which he is fully qualified. He consults with appropriate experts if an assignment exceeds his competence. He accepts responsibility for the organisation and performance of his assignments.

He ensures that a technically high-quality result is produced. When carrying out a job he resorts to all measures necessary:

- * to ensure the safety of human life and property,
- * to secure and promote a healthy and desirable environment for mankind.

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 framework conditions and for the consistent deployment of new techniques, processes and technologies. He engages in an intensive international exchange of information thus promoting the assimilation of European railways at a high level.

Social conduct

The railway engineer shall:

- * respect the personal and occupational rights of his superiors, his colleagues and his subordinates by treating 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 to transmit adequate understanding of the technical problems,
- * show the greatest respect for traditional and cultural values of the countries in which he carries out his profession.

(Sender)

Tel.:
E-mail:
Fax:

**UEEIV
Zentrales Zertifizierungsbüro
Kaiserstrasse 61**

60329 Frankfurt am Main

(Place / Date)

Application for certification as "European Railway Engineer - EURAIL-ING"

I request the certification as "European Railway Engineer - EURAIL-ING".

With my signature I acknowledge without objections the conditions of granting this certification according to the handbook and the rules of conduct. I affirm that I have no previous convictions and there are no legal proceedings pending.

I agree / do not agree with the storing of my personal data in the central register and with the publication of 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 ten years. An extension for a further ten years may be granted if the necessary conditions are met.

* Please delete if not applicable

.....
(Signature)

For personal data see other side

Attachments (all documents in duplicate and certified by the employer)

- 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 occupation 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 courses during the last three years

Personal data:

Surname: First name:

Date of birth: 19..... Sex:

1st Field of study:

Main focus / Specialisation:

University / College:.....

Standard period of study: Practical training (period):

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

2nd Field of study:

Main focus / Specialisation:

University / College:.....

Standard period of study: Practical training (period):

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

Practical experience: years

Special examinations:

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Language skills:

Further education courses / 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:

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

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[Confirmation by the employer]

.....
[Signature]