

UNION OF EUROPEAN RAILWAY ENGINEER ASSOCIATIONS

- UEEIV -

Handbook for
Certification of the Title of

"EUROPEAN RAILWAY ENGINEER"
(EURAIL-ING)
(Certification Handbook)

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I Objectives

Railway specific engineer education is available in only a few European countries. Safety criteria and other unique aspects of railways require that railway engineers¹ be educated beyond the curriculum for a standard engineering education. This additional knowledge and know-how are conveyed in special courses sponsored by associations, the employers in the railway industry and in technical institutions with a vocational orientation.

Engineers who possess railway specific knowledge or have acquired professional experience through years of practical work for or within railway undertakings should be entitled to a Certification, documenting their qualification to carry out their profession. The Union of European Railway Engineer Associations – UEEIV awards the title "European Railway Engineer" (EURAIL-ING).

This certificate of qualification should serve railway engineers:

- as proof of their qualifications,
- as a means to improve their chances of employment and of promotion,
- as an incentive for continuous professional development and
- as an instrument which will promote professional mobility in Europe

Furthermore, the certification is intended:

- to enhance the status, role and responsibility of the engineer in society,
- to provide a framework for reciprocal acceptance of professional qualifications,
- to improve engineering education and qualification through a continuous review of requirements,
- to provide employers with a well founded documentation covering the entire education and training of an engineer,
- to enable companies to advertise high standards by stressing the employment of staff with the professional title "European Railway Engineer" (EURAILING) and
- to encourage railway undertakings to give preference to bids from those companies which employ certified personnel.

Certification is carried out on the basis of DIN EN 45 013. Regulations of the national certification offices may go beyond the requirements of this handbook but may not reduce the standards.

¹ Railway engineers are professionals who possess an engineering degree or diploma (also Bachelor and Master), a record of examinations taken or a state certification in accordance with the EU guidelines dated 21 December 1988 for the recognition of university diplomas AND who are engaged by railway undertakings, railway administrations or railway supervisory authorities, transport businesses and administrations, in railway specific research and teaching at universities or who are employed by companies which plan, build or produce materials, equipment and rolling stock that are specific to the railway industry.

The Steering Committee will decide on the accreditation of completed education programmes for applicants from countries which have not adopted the EU guidelines.

Declaration of principle of certification

The Union of European Railway Engineer Associations – UEEIV as an organisation has the objective to actively commit to a high standard of specialised knowledge of all European railway engineers. In order to achieve this objective various activities for the dissemination of specialised knowledge and practical experiences as well as the further development and standardisation of technical standards and regulations are being organised.

UEEIV feels especially committed in all regards to the codex of behaviour for European railway engineers.

The awarding of the certificate “European Railway Engineer EURAIL-ING” is held to be a highly efficient means in order to maintain a high standard of knowledge among European railway engineers.

The process design is based on the guarantee of a high standard of quality.

Starting with the head and the members of the steering committee, the staff of the certification offices and on to the competent experts a high standard was applied as far as professional experience and reputation is concerned. In general only engineers with long-term experience in their field of expertise are being employed. The respective recruitment process is documented.

Access to the certification process is guaranteed free of any kind of discrimination for all railway engineers.

During the correct handling of the applications for certification strict neutrality of all involved is being observed. The process is designed with the utmost transparency and documented in the handbook.

The steering committee is auditing the process on a yearly basis in regard to quality and workflow.

The applicant is entitled to a service of high quality. At the same time the certificate should be a proof of quality for its holder; it should be proof of his abilities on the highest technical level and enhance his value as an employee.

Frankfurt/Main, 01. January 2006

Sig. Heinrich Salzmänn
President UEEIV

II Organisation of the Certification Office

1. Legal Form

The certification office is an establishment of the Union of European Railway Engineer Associations UEEIV.

The certification office operates on a not-for-profit basis.

all expenditure of the certification office is to be financed by certification fees.

The UEEIV finances start-up expenditure and covers temporary financial shortfalls in the form of advances but only in as far as costs are concerned which result from the activities of the Central Certification Bureau (CCO) and the Steering Committee (SC). All correspondence, regardless of media, is to be carried out in the languages of the Union (German, English, French).

Detailed regulations as to the conduct of business are ruled by the certification rules of procedure.

2. Structure of the Certification Office (CO)

See Organisation Diagram of the Certification Office, Appendix 1.

2.1 The Steering Committee (ST)

2.1.1 Composition of the Steering Committee

The steering committee (ST) consists of a chair and six members. One of the members is also appointed as vice-chair. The membership of the SC must include engineers representing the professions involved in: railway operations, railway construction, electrical engineering², surveying, rolling stock and mechanical engineering, signalling system, electronics and telecommunications. To preserve fair treatment, no more than one member may be associated with a given UEEIV member association, railway undertaking or industrial concern.

To assure the functioning of the ST, it can be enlarged temporarily through the appointment of assistants of members.

The chair and members of the ST may not have any position of professional authority over one another outside the ST.

Members of the ST may act as auditors in their respective areas of expertise.

2.1.2 Appointment

The chair and members of the ST, as well as their substitutes, will be appointed by the UEEIV president for a term of four years.

Committee membership is a voluntary (unpaid) activity.

2.1.3 Qualifications for Steering Committee, Director and Members

The chair and members of the ST shall meet the following requirements:

- can offer evidence of a completed engineering education,

² for the purposes of the handbook this term refers to power supply systems.

- at least ten consecutive years of practical experience with railway undertakings, companies engaged by railways, or organisations who are engaged in railway related research or teaching,
- occupy a position of technical leadership responsibility,
- be an active member in a UEEIV member association,
- possess a good knowledge of at least one Union language (English, German, French) in addition to his/her native language.

The ST chair should hold a position with a European railway company or European railway organisation. This should preclude the commercial interests of a single industrial company from becoming dominant.

The qualification of ST-members must be documented by the CCO and has to be updated by a yearly survey.

2.1.4 Duties of the Steering Committee

The SC shall:

- Be responsible for the handling of the certification process according to the rules and regulations EN ISO/IEC 17024, DIN EN ISO 19011 and DIN EN ISO 9000:2000,
- define business policies for the activities of the certification office and supervise their implementation.
- Distribute the order to award certification by the CCO
- initiate changes to the certification handbook as needed and present these to the UEEIV presidency for approval.
- initiate the internal audit of certification procedures on a yearly basis and, if needed, initiate supervisory audits.
- ensure that neutrality is preserved in all matters of certification.
- assure a clear separation between professional obligations and questions of certification procedures and processes.
- audit the financial transactions of the certification office, that is, the account balances as well as the orderly collection of fees by the central certification office.
- monitor the work of the certification office and the examiners to maintain neutrality and adherence to the rules of certification.
- advise the certification office with regard to scale and scope of business.
- support the certification offices in collaborating with European bodies and institutions and provide assistance in obtaining European railway standards and regulations which can support the certification process.
- create temporary sub-committees, as needed, for special tasks to handle certification problems and assign objectives to these sub-committees.
- appoint teams of examiners and monitor their work.
- initiate courses of instruction for examiner teams as well as the personnel of the certification office.
- evaluate the work of examiners.
- process complaints and petitions as the first level of appeal.
- present the UEEIV presidency with annual reports on the work carried out (including written contributions for the UEEIV annual report if requested to do so).
- safeguard the confidentiality of certification documents.

- inform all appropriate EU commissions bodies, UIC, OSShD, the Community of European Railways, AICCF, UNIFE, UITP, all European railways, member associations, and sponsoring members about matters of certification.

The SC meets at least annually, in the meantime current topics will be interchanged in writing.

2.2 Certification Offices (CO)

The central certification office (CCO) is located at the office of the UEEIV General Secretariat and may be identical with it. It primarily handles organisational matters.

All UEEIV member associations may establish national certification offices (NCO) (Directory of Member Association Business Offices, see Appendix 2).

2.2.1 Qualifications of the Personnel of the Certification Office

The CCO Director must meet the following minimum requirements:

- engineering education at university level,
- have long years of professional experience in leadership and management assignments,
- be a member of an UEEIV association,
- be competent (oral and written communication) in at least one language of the Union (English, German, French), in addition to his or her native language,
- not be in a subordinate position with regard either to qualification or rank to engineers applying for certification,
- not be in a dependent relationship with respect to railway suppliers and railway undertakings.
- observe strict neutrality in regard to employers of the applicants.

The employees of the CO shall have the following qualifications:

- comprehensive PC knowledge,
- knowledge of documentation and archiving activities,
- good office organisation skills,
- if possible, foreign language skills in the languages of the Union.

A documentation of the qualification of the director and the employees of the CO must be compiled and updated on a yearly basis; if it is not a part of the personnel file.

2.2.2 Staffing the Central Certification Office (CCO)

The director and the employee/s of the central CO will be employed by the UEEIV Presidency. The temporary deputyship will be taken over by the head of the NCO in the area where the CCO is located. National COs will be staffed by the national member associations. A rule for the deputyship has to be laid down nationally in the PG.

2.2.3 Duties of the Central Certification Office

- registration of applications and recommendations by country of residence,
- onward transmission of applications to the responsible member of the SC in the case of negative decisions of the examiners,
- monitoring of incoming and outgoing certification documents,
- collection of certification fees,

- production of certificates and presentation of the certificates to the SC Chair and UEEIV President for signature,
- posting of certificates and rejection letters (copy to NCO)
- filing of all certification documents
- preparation and implementation of SC resolutions,
- organisation of certification related activities,
- co-operation with the NCOs,
- written declaration of confidentiality regarding the information resulting from certification of all members of the SC, director and staff of CCO,
- collection and assessment of national CO recommendations and preparation of same for the SC,
- record keeping and calculation of expense allowances for the SC and examiners,
- maintaining the financial records of the CO and preparation of annual financial statements,
- reporting to the SC and UEEIV presidency,
- registration of grievances and preparation of documentation same for first and second appeals,
- updating of the certification handbook as instructed by the SC, documentation of changes and securing the distribution,
- responding to enquiries about issued certificates and the details of certification,
- organisation of the public relations work,
- organisation of training programmes for the SC, the CO and the examiners as directed by the SC (e.g. audit procedures),
- safekeeping of examiners' license records, their experience and completed training programmes,
- instituting measures (notice of offence, legal prosecution) in cases of misuse of certificates or unauthorised issue of duplicate certificates,
- evaluation of published literature on audits, standards, and European regulations for examiners and SC,
- preparation of suggestions affecting documents and certification procedures,
- acquisition and updating of necessary working documentation such as standards, regulations and so on.
- see appendix 8 for the Work Flows for the CCO

2.2.4 Duties of the National Certification Offices (NCOs)

- selection of examiners and proof of qualification as well as the yearly update of it,
- written declaration of confidential handling of all information resulting from certification registration of certification applications and management of the certification register,
- review of applications for completeness of submitted documentation,
- instructing the responsible examiners
- monitoring the processing of applications by examiners (4 weeks),
- According to the recommendation of the examiner – issuing the certificate by CCO or issuing of a refusal with reasons after examination by the SC
- collection of certification fees and monitoring of the onward transmission of the central component of the fee,
- recording and calculation expense allowances for the examiners,

- monitoring of the period of validity of certificates
- annual reporting to the CCO and the national organisation,
- responding to enquiries about certificates issued and the details of certification,
 - organisation of the public relations effort,
 - archiving of application and certification documentation,
 - organisation of training programmes for examiners as directed by the SC (documentation of the results)
 - yearly assessment of the performance of the examiners,
 - instituting measures (notice of offence, legal prosecution) in cases of misuse of certificates or unauthorised issue of duplicate certificates,
 - evaluation of published literature on audits, standards, and European regulations for examiners and SC,
 - preparation of suggestions for optimising documentation and certification procedures,
 - procurement and updating of necessary working documentation such as standards, regulations and so on, distribution among the examiners (documentation of distribution),
 - annual review and completion of Appendix 3,
 - procurement of documentation on the study contents of university and polytechnic engineering curricula over the past 15 years, or longer.
 - Work Flows for NCO – see appendix 9).

2.3 Examiner Teams

2.3.1 Composition

For each of the engineering disciplines

- Railway Operations
- Railway Construction
- Electrical Engineering
- Surveying
- Rolling stock and Mechanical Engineering
- Signalling Systems, Electronics and Telecommunications

at least one examiner in each member country is to be put forward by their national associations.

2.3.2 Appointment

Based on the recommendations of the national associations, the SC appoints certified examiners, normally for periods of four years. Engineers from railway undertakings, manufacturing and construction industry, as well as from research and teaching should be represented in the ranks of these examiners.

This is an honorary position. Examiners will be reimbursed for personal expenses. The level of allowed expenses is subject to the decision of the individual membership association. Financing will be based on incoming certification fees.

2.3.3 Examiner Qualifications

Basic prerequisites:

- evidence of a completed engineering education,
- at least ten consecutive years of experience as a railway engineer,
- knowledge of the current status of applicable standards, examination procedures and methods.
- Completion of an introductory course of the certification process
- Certification by an accredited national certification office

Desirable prerequisites:

- executive function in industry or a similar position at a university or polytechnic institution,
- active membership in a UEEIV member association,
- knowledge of a least one language of the Union, in addition to his or her native language,
- competence in methods of evaluation, investigation, questioning, assessment and reporting,
- good sense of judgement,
- analytical reasoning capability,
- ability to understand complex processes and realistic situations.

These characteristics should enable examiners:

- to preserve objectivity for all applicants,
- to evaluate fairly the documentation submitted by applicants,
- to follow closely the certification procedures without questioning or interpreting their intention,
- to reach generally acceptable decisions based on the certification procedures.

2.3.4 Duties of the Examiners

2.3.4.1 Certification Procedure

Examiners receive applications for certification in keeping with the particular field of engineering in which they are experts. They evaluate, on the basis of the documentation submitted, the suitability of the applicant applying for certification. Should a situation arise where a neutral assessment is not possible (e.g. personal or professional relationship to the applicant) the assessment must be deferred to the SC. If a lack of clarity exists in the application documents a written or oral questioning of the applicant can be conducted. When concluded, a recommendation with regard to the certification must be made. A protocol of the examination must be written and copied to the applicant before it is added to the documentation on the application.

Examiners' recommendations for certification are generally to be submitted to the NCO within four weeks of receipt of the application. The recommendation should be written in one of the languages of the Union. The examiner must complete the back of the certificate (see appendix 7) and the certificate check list provided for this purpose (see appendix 10).

Following SC ratification of the recommendation, the SC Chair and the President of the UEEIV will sign the certificate (Appendix 7).

Rejections of applications for certification must be substantiated by the examiners and, following a review by the SC, the documentation will be returned to the applicant by the certification office.

All certification related documentation and information is to be handled confidentially.

(See appendix 10 for the certification check list) .

2.3.4.2 Further Development of the Certification Process

Examiners are encouraged to forward to the SC their suggestions for improvement of the processes as well as to recommend supplemental certification procedures and changes to the handbook which result from the experience gained in the certification process or which evolve from their personal awareness.

2.3.5 Examiner Training

The SC and must be trained and certified as required prior to acting in the examining role.

Suitable educational programs of accredited national institutions, are to be utilised.

The financing of this training shall derived from the collection of certification fees.

III Certification System

1. Premises for the Issue of the EURAIL-ING

1.1 Eligible Candidates

Railway engineers as well as persons with a related academic education (natural science, computer science, business management, national economy, jurisprudence) who have fulfilled the duties of an engineer with a railway company, a company which is planning or producing for railways or is active in the field of railway science may apply for certification. Applicants should not be under 28 years of age.

1.2 Prerequisites for Conferring the EURAIL-ING Title

1.2.1 Education

- Completion of an engineering degree at a state accredited European university, technical university, polytechnic institute or an equivalent programme of engineering education.
(See Appendix 3 for a list of institutions)
- Length of study: at least 3 academic years (6 semesters, at least 1,800 hours of lectures, seminars and practicals) or an equivalent part-time education.
- Further requirements: In addition to the specific technical content of the engineering discipline or the related education, the educational background must include at least one of the following railway related subjects:
 - Train Maintenance
 - Electric Railways
 - Transportation Safety Techniques
 - Land-Based Transportation Engineering (including railway operations)
 - Rolling stock Dynamics
 - Fundamental Aspects of Civil Engineering for Transport
- Proof of specialist engineering knowledge in at least two of the following fields:
 - Fundamentals of Automation
 - Environment and Transportation
 - Transportation Technology Principles
 - Information technology
 - Logistics
 - Quality Control
 - Business Administration
 - Environmental Law
 - Contract and Liability Law
 - European Law / Standardisation / Patent Law
 - Understanding of National Railway Regulations as well as European Railway Standards and Tendering Guidelines
 - Geodetic Engineering(See Appendix 4 for examples of curriculum contents.)
- Technical language skills in at least one foreign language

1.2.2 Practical Experience

- Successful completion of state examinations or of examinations carried out by the railways as applicable to the country's legislation and discipline,
- Practical experience of at least 3 years when coupled with a four year university education or practical experience of at least 4 years when coupled with a three year engineering education and a practical experience of 10 years when coupled with a degree in a related academic .

Practical experience must have been gained in working for a railway undertaking, a transportation company or government authority, for companies which plan or construct systems on behalf of transportation companies or which produce transport oriented equipment, rolling stock or devices. It can also be gained in institutions of research and education dealing with questions of transport.

This occupation must have been carried out in a country of Europe.

- For university degrees which are not inherently linked to railway issues, additional requirements must be fulfilled
 - at least two terms of intensified study of railway topics OR
 - a supplemental professional training in a railway undertaking, a transportation company or government authority, or in a company which acts as a supplier to the railways or other transport companies; supplemental studies at an external educational institution OR
 - five years of employment with a railway undertaking, railway authority or a company which is working in railway specific matters. The applicant is to be questioned formally about his experience.

1.2.3 Continuing Education

- proof of participation in continuing education at least once every two years

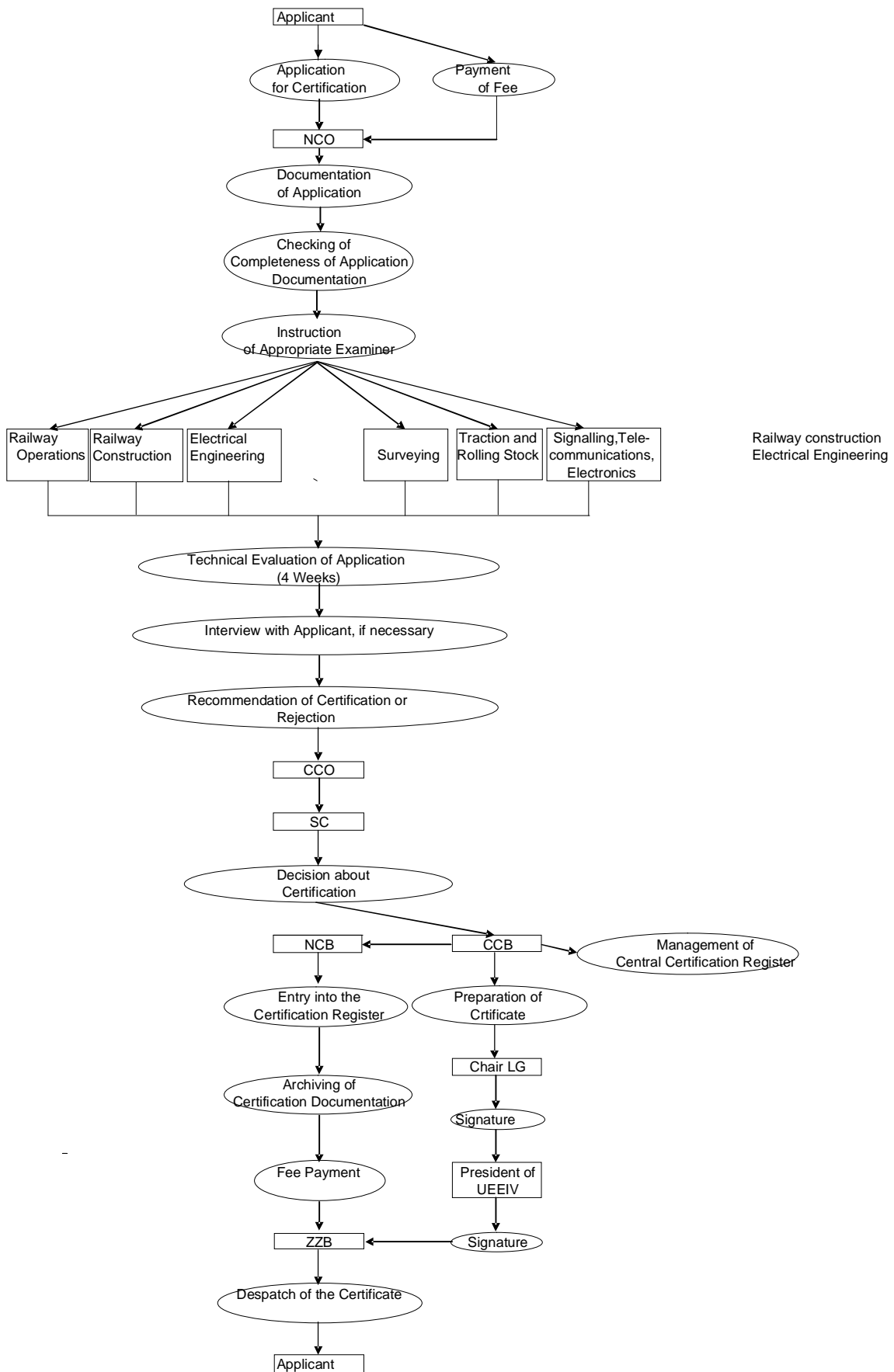
Accredited continuing education measures and contents - see Appendix 5

1.3 Acceptance of and Compliance with the Code of Conduct

Candidates and title holders are obliged to comply with the code of conduct (Appendix 6).

Gross violations of this code of conduct will lead to revocation of the title and certification by the issuing office.

2. Certification Procedures



2.1 Normal Process Flow

Workflow in CCO see appendix 8

Workflow in NCO see appendix 9

2.2 Certification Documentation

2.2.1. Application Documentation

The candidate must submit to the national CO:

- a free form application (appendix 11) which contains personal information, the engineering discipline, the name of the company where the applicant is employed and a request for certification,
- a permission to store the personal data in the certification index and publication of the name of the certified engineer as well as of his nationality,
- a tabular curriculum vitae,
- evidence of education including continuing education (copies of examination results), ***
- proof of subjects studied and of subjects examined,
- proof of national examinations and railway specific examinations, ***
- proof of length and type of service in the railway sector,
- proof of participation in projects and in the supply of engineering products and services, ***
- certificate of language skills, ***
- proof of nationally required, state accredited examinations or of examinations of a railway undertaking.

*** Certified copies are required.

Applicants from countries without an NCO may submit their applications directly to the CCO.

2.2.2. Documentation for the Certificate Renewal

EURAIL-ING has to apply for the extension of the validity of certification every ten years. This process requires that the applicant submit the following to the national CO:

- a formal application (appendix 12)
- proof of continued service in the railway sector,
- proof of participation in continuing education programmes or papers published

2.2.3. Public Documents

The index of certification, which is maintained at both national and central levels, contains the following information:

- surname, given name
- date of birth
- nationality
- address
- engineering discipline
- certification number
- date of certification

The names of those certified, their nationalities, certification numbers and dates of certification are published in the Union's publications.

Cancellations from the list of those that have been certified are made 10 years after the expiration of certification.

Access to the public documentation (certification handbook and certification index) is open to anyone who formally requests it.

2.2.4. Confidential Documentation

The documentation classified as confidential includes the application documentation, examiners' recommendations, related correspondence and, if applicable, any appeal information.

Documentation will be safeguarded under lock and key at the national CO.

Documentation submitted will be returned to the applicant upon expiry of the certification. Remaining documentation is being stored for 10 more years.

Access to confidential documentation is limited to the SC, the CO, examiners and the applicant in line with national European law.

2.2.5. The Certificate

Upon certification a certificate (see appendix 7) is issued which is signed by the president of the UEEIV and the chair of the SC. It will be sent by CCO.

2.3. Issuance of certificate

The certificate will be issued by CCO according to an instruction of SC on behalf of the presidency of UEEIV after careful examination of the recommendation of the examiner.

2.4. Extension of the certificate

- Application for the extension of the certificate must be posed every 10 years (see 2.2.2.). This procedure is nullified if the holder of the certificate is older than 60 years at the time of the application for the extension of the certificate
- A reminder will be sent by the NCO to the EURAIL-ING 6 month before the certificate expires
- If an application for the extension of the certificate is not posted within 6 months after the expiration of the certificate, the validity ends. The cancellation from the list of certified follows.

Processing of the application for extension is being handled according to the rules applicable for the certification process.

2.5. Appeals Procedures

Objections to a refusal of certification must be directed to the CCO. The director will register the appeal and:

- undertake a formal review,
- forward the objection to the respective examiner(s) and NCO for their comments,
- transmit the appeals documentation, the comments and copies of all correspondence to the chair of the SC for a decision in the first instance,

Objections which are dealt with in this first stage of appeal are generally to be handled within one month's time. The chair of the SC replies to the appellant with copy to the parties involved in the dispute.

The second, and final, appeal is decided by the UEEIV presidency. Independent experts may be called upon for their opinions. The duration of this process should not generally exceed a period of three months.

2.6. Revocation of Certificate

Supplying false application information, violations of the code of conduct or misuse of the certificate can result in revocation of the title "European Railway Engineer".

Revocation can occur as a result of a special review called by the chair of the SC, on application by the NCO, or in the form of a denial for certification renewal.

The NCO is required to ask the certificated person for a statement as to the circumstances of any accusation which could lead to the revocation or non renewal of certification and must submit this statement, along with documentation of the situation, to the SC for a decision. The SC will decide on the matter within 4 weeks. The decision of the SC may be appealed through the presidency of UEEIV. The presidency will commission neutral experts with the finding. A further appeal is not possible.

Should the certified person fail to respond to the accusation within eight weeks of notification, he will automatically be taken from the certification index.

2.7. Certification of Examiners and Members of the Steering Committee

The certification of examiners is to be effected by the members of the SC.

Members of the SC present normal applications to their respective national certification offices.

2.8. Regulations for Use of the Certificate

A certificate holder is entitled to publicly use the title „European Railway Engineer (EURAILING)“. Copies of the certificate may be produced for the holder's personnel file at his or her place of employment.

Employers of certificate holders are entitled to promote themselves by advertising the employment of certified staff and, in the course of submitting contract bids, may reveal the fields in which EURAILING certified personnel are active. Contracting agencies are entitled to require evidence of such certification or may inspect the UEEIV's certification register for confirmation.

All documentation is to be appropriately changed when the certification is no longer valid.

2.9. Protection of the title „European Railway Engineer“

The title will be registered with the institutions of the EU.

National associations which have an established NCO are urged to make all possible efforts to inform national institutions, railway undertakings, suppliers and other companies and educational institutions about certification opportunities.

2.10. Further development of certification

Based on the experience derived from the certification process and personal knowledge from the workflow the examiners are invited to submit suggestions for the improvement and amendment of the certification workflow and the handbook through the SC.

The CCO and NCO are also invited to scrutinize the workflow according to its practicability. A yearly audit of the certification handbook, the procedural guidelines and further documents for certification is conducted by the SC.

3. Fee Schedule

The amount of certification fees levied will be determined by the national member. The NCO will request fee payment from the applicant once the application for certification or renewal has been submitted.

Country specific departures from the fee schedule may be approved by the president of the UEEIV on application of the NCO or the applicant where no NCO exists.

Upon rejection of an application or the rescinding of an application, 30% of the fee will be returned to the applicant.

IV Final Decisions

Cessation of certification can only be effected by judicial order or upon a motion of the SC followed by a resolution of the UEEIV general assembly.

The SC shall arrange for and approve of changes to the handbook as necessary.

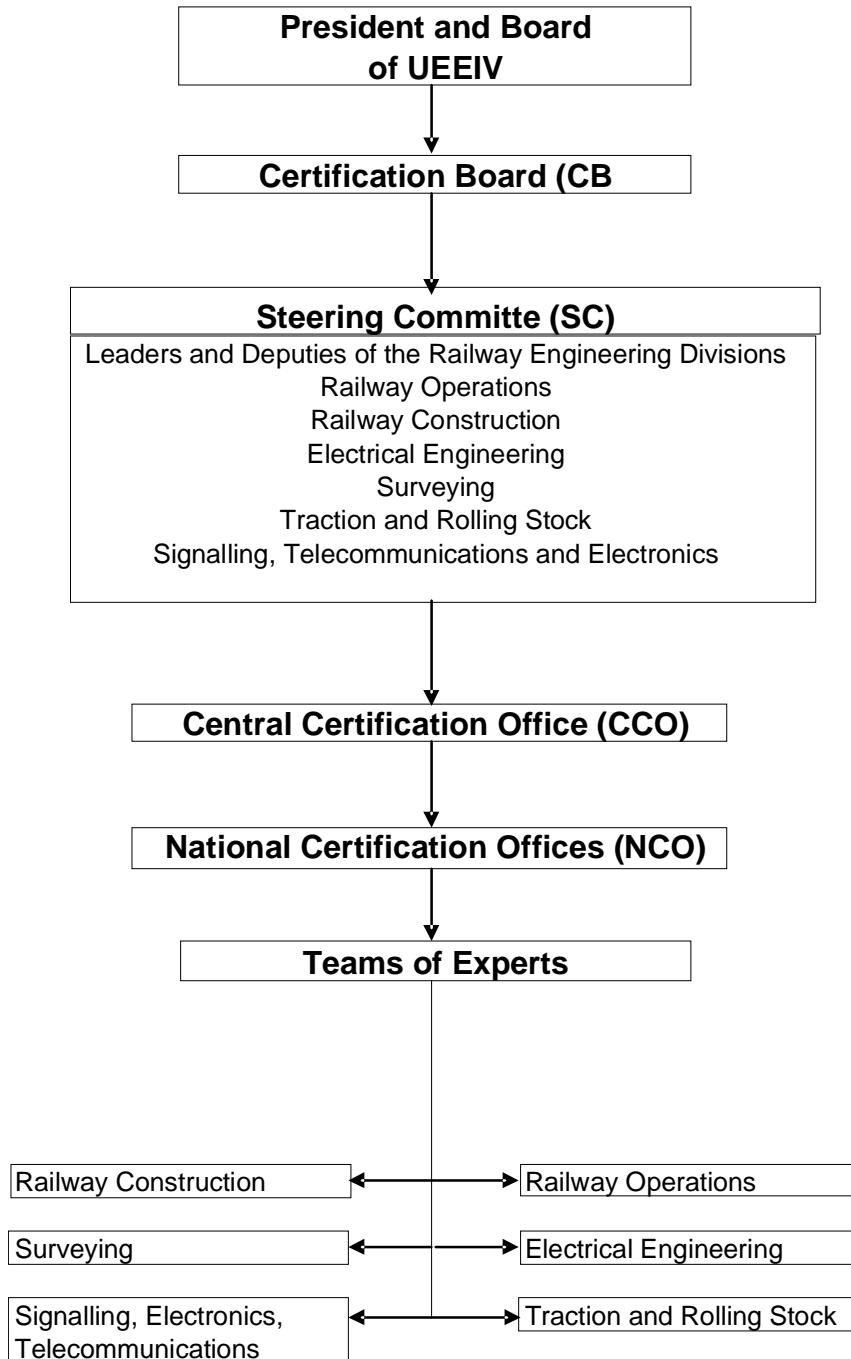
Appropriate means are to be chosen for announcement of the availability of certification, publication of the certification procedures as well as all changes. The responsibility is that of the SC.

Frankfurt am Main, 01st January 2006

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Organigram of the Certification Body "European Railway Engineer"



**Address Index
for the Central and National Bureaux**

I Central Certification Office

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- BuSCaria:** **Contact Person: Dipl.-Ing. EURAIL-ING Tristo Velev**
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Maria-Louise-Blv. 100
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- Poland:** **Contact Person: Dr. Stefan Krychniak**
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- Croatia:** **Contact Person: Dipl.-Ing. EURAIL-ING Borivoj Zilic**
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Petrinjska 89
HR - 10000 Zagreb
Director: Dipl.-Ing EURAIL-ING Borivoj Zilic
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Bd. Dinicu Golescu Nr. 38, Sector 1
RO – 77113 Bukarest
Director: Dr. Eng Dragos Teodorescu

Appendix 3

Index of European Polytechnics and Universities

with Relevant Curricula
(as of 01.01.2006)
based on: Feani-Register
supplemented by redommendations
by members of UEEIV

3.1 Albanien – Albanie – Albania

TIRANA UNIVERSITY / POLYTECHNIC UNIVERSITY OF TIRANA

3.2 BeSCien – Luxembourg – BeSCium

UNIVERSITÉ LIBRE DE BRUXELLES / VRIJE UNIVERSITEIT BRUSSEL
UNIVERSITE DE L'ETAT A LIEGE
FACULTÉ POLYTECHNIQUE DE MONS
ECOLE ROYALE MILITAIRE / KONINKLIJKE MILITAIRE SCHOOL BRUXELLES
UNIVERSITÉ CATHOLIQUE DE LOUVAIN
KATHOLIEKE UNIVERSITEIT LEUVEN
RIJKSUNIVERSITEIT GENT
INSTITUT SUPÉRIEUR INDUSTRIEL GRAMME LIEGE
INSTITUT SUPÉRIEUR INDUSTRIEL DE LA COMMUNAUTÉ FRANCAISE ARLON
INSTITUT SUPÉRIEUR INDUSTRIEL DE LA PROVINCE DU HAINAUT CHARLEROI-ATH
INSTITUT SUPÉRIEUR INDUSTRIEL DE LA PROVINCE DE LIEGE
INSTITUT SUPÉRIEUR INDUSTRIEL DE LA COMMUNAUTÉ FRANCAISE MONS
INSTITUT SUPÉRIEUR INDUSTRIEL CATHOLIQUE DU HAINAUT MONS
INSTITUT SUPÉRIEUR INDUSTRIEL ECAM ST GILLES / BRUXELLES
INSTITUT SUPÉRIEUR INDUSTRIEL DE BRUXELLES
INSTITUT SUPÉRIEUR INDUSTRIEL CATHOLIQUE DU Luxembourg – VIRTON
PROVINCIALE INDUSTRIE HOGESCHOOL KORTRIJK
KATHOLIEKE INDUSTRIELE HOGESCHOOL DE NAYER SINT-KATHELIJNE WAVER
STEDELIJKE INDUSTRIELE HOGESCHOOL MECHELEN
KATHOLIEKE INDUSTRIELE HOGESCHOOL ANTWERPEN – HOBOKEN
KATHOLIEKE INDUSTRIELE HOGESCHOOL OOST VLAANDEREN GENT
INDUSTRIELE HOGESCHOOL VAN HET GEMEENSCHAPSONDERWUS LIMBURG – HASSELT
INDUSTRIELE HOGESCHOOL VAN HET GEMEENSCHAPSONDERWUS BRUSSEL
KATHOLIEKE INDUSTRIELE HOGESCHOOL VAN LIMBURG – DIEPENBEEK
STEDELIJKE INDUSTRIELE HOGESCHOOL ANTWERPEN
KATHOLIEKE INDUSTRIELE HOGESCHOOL GROEP T LEUVEN
KATHOLIEKE INDUSTRIELE HOGESCHOOL WEST VLAANDEREN OSTENDE
KATHOLIEKE INDUSTRIELE HOGESCHOOL DER KEMPEN – GEEL
INDUSTRIELE HOGESCHOOL VAN HET GEMEENSCHAPSONDERWUS B.M.E GENT

3.3 BuSCarien - BuSCarie – BuSCaria

UNIVERSITÄT FÜR ARCHITEKTUR, BAUWESEN UND GEODÄSIE - SOFIA
TECHNISCHE UNIVERSITÄT SOFIA
TECHNISCHE MILITÄRVERKEHRSHOCHSCHULE „TODOR KABLESCHKOV“ – SOFIA

3.4 Dänemark - Danemark – Denmark

DANMARKS TEKNISKE HOJSKOLE, DTH - LYNGBY
AALBORG UNIVERSITETSCENTER, AUC
DANMARKS INGENIORAKADEMI; DIA - LYNGBY
INGENIORHOJSKOLEN AALBORG TEKNIKUM
INGENIORHOJSKOLEN ARHUS TEKNIKUM
INGENIORHOJSKOLEN ESBJERG TEKNIKUM
INGENIORHOJSKOLEN HASLEV TEKNIKUM
INGENIORHOJSKOLEN HELSINGOR TEKNIKUM
INGENIORHOJSKOLEN HORSSENS TEKNIKUM
INGENIORHOJSKOLEN KOBENHAVNS TEKNIKUM
INGENIORHOJSKOLEN ODENSE TEKNIKUM
INGENIORHOJSKOLEN SONDERBORG TEKNIKUM
ODENSE UNIVERSITET
INGENIORHOJSKOLEN VESTJYSK TEKNIKUM
INGENIORHOJSKOLEN HORSSENS TEKNIKUM
INGENIORHOJSKOLEN KOBENHAVNS TEKNIKUM

3.5 Deutschland - Allemagne – Germany

RHEINISCH-WESTFÄLISCHE TECHNISCHE HOCHSCHULE AACHEN
FACHHOCHSCHULE AACHEN
FACHHOCHSCHULE AALEN - HOCHSCHULE FÜR TECHNIK
FACHHOCHSCHULE ALBSTADT-SIGMARINGEN
FACHHOCHSCHULE AMBERG-WEIDEN
FACHHOCHSCHULE AUGSBURG
TECHNISCHE UNIVERSITÄT BERLIN
TECHNISCHE FACHHOCHSCHULE BERLIN
FACHHOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT BERLIN
FACHHOCHSCHULE DER DEUTSCHEN BUNDESPOST BERLIN
HUMBOLDT-UNIVERSITÄT ZU BERLIN
INGENIEURHOCHSCHULE BERLIN
INGENIEURHOCHSCHULE BERLIN-WARTENBERG
FACHHOCHSCHULE BIBERACH AN DER Riß
FACHHOCHSCHULE BIELEFELD
FACHHOCHSCHULE BINGEN
FACHHOCHSCHULE BIRKENFELD
FACHHOCHSCHULE BERGBAU BOCHUM
RUHR-UNIVERSITÄT BOCHUM
FACHHOCHSCHULE BOCHUM
TECHNISCHE FACHHOCHSCHULE GEORG AGRICOLA FÜR ROHSTOFF; ENERGIE u. UMWELT zu
BOCHUM
RHEINISCHE FRIEDRICH-WILHELMS-UNIVERSITÄT BONN
FACHHOCHSCHULE BRANDENBURG
TECHNISCHE UNIVERSITÄT CAROLO-WILHELMINA zu BRAUNSCHWEIG
FACHHOCHSCHULE BRAUNSCHWEIG / WOLFENBÜTTEL
UNIVERSITÄT BREMEN
HOCHSCHULE BREMEN
HOCHSCHULE BREMERHAVEN
TECHNISCHE UNIVERSITÄT CHEMNITZ-ZWICKAU
TECHNISCHE UNIVERSITÄT CLAUSTHAL
FACHHOCHSCHULE COBURG
BRANDENBURGISCHE TECHNISCHE UNIVERSITÄT COTTBUS
HOCHSCHULE FÜR BAUWESEN COTTBUS
TECHNISCHE HOCHSCHULE DARMSTADT
TECHNISCHE HOCHSCHULE DARMSTADT
FACHHOCHSCHULE DARMSTADT
FACHHOCHSCHULE DEGGENDORF
FACHHOCHSCHULE DIEBURG
UNIVERSITÄT DORTMUND
FACHHOCHSCHULE DORTMUND
TECHNISCHE HOCHSCHULE FÜR VERKEHRSWESSEN „FRIEDRICH LIST“ DRESDEN
TECHNISCHE UNIVERSITÄT DRESDEN
INGENIEURHOCHSCHULE DRESDEN
HOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT DRESDEN
FACHHOCHSCHULE DÜSSELDORF
GERHARD-MERCATOR-UNIVERSITÄT - GESAMTHOCHSCHULE DUISBURG
FACHHOCHSCHULE OSTFRIESLAND EMDEN
FRIEDRICH-ALEXANDER-UNIVERSITÄT ERLANGEN-NÜRNBERG
UNIVERSITÄT-GESAMTHOCHSCHULE ESSEN
FACHHOCHSCHULE FÜR TECHNIK ESSLINGEN
FACHHOCHSCHULE FLENSBURG
JOHANN WOLFGANG GOETHE - UNIVERSITÄT FRANKFURT/M
FACHHOCHSCHULE FRANKFURT/M
BERGAKADEMIE FREIBERG
FACHHOCHSCHULE FULDA
FACHHOCHSCHULE FURTWANGEN
FACHHOCHSCHULE GELSENKIRCHEN
FACHHOCHSCHULE GIESSEN-FRIEDBERG
INGENIEURSCHULE FÜR TRANSPORTBETRIEBSTECHNIK GÖTHA
FERNUNIVERSITÄT - GESAMTHOCHSCHULE - in HAGEN

MÄRKISCHE FACHHOCHSCHULE HAGEN / ISERLOHN
UNIVERSITÄT HAMBURG
TECHNISCHE UNIVERSITÄT HAMBURG-HARBURG
UNIVERSITÄT DER BUNDESWEHR HAMBURG
FACHHOCHSCHULE HAMBURG
UNIVERSITÄT HANNOVER
FACHHOCHSCHULE HANNOVER
FACHHOCHSCHULE WESTKÜSTE HEIDE
FACHHOCHSCHULE DER STIFTUNG REHABILITATION HEIDELBERG
FACHHOCHSCHULE HEILBRONN
UNIVERSITÄT HILDESHEIM
FACHHOCHSCHULE HILDESHEIM / HOLZMINDEN
TECHNISCHE UNIVERSITÄT ILMENAU
TECHNISCHE HOCHSCHULE ILMENAU
MÄRKISCHE FACHHOCHSCHULE ISERLOHN
FRIEDRICH-SCHILLER-UNIVERSITÄT JENA
FACHHOCHSCHULE JENA
UNIVERSITÄT KAISERSLAUTERN
FACHHOCHSCHULE RHEINLAND-PFALZ; ABT. KAISERSLAUTERN
FACHHOCHSCHULE KARLSRUHE - HOCHSCHULE FÜR TECHNIK
UNIVERSITÄT KARLSRUHE
GESAMTHOCHSCHULE-UNIVERSITÄT KASSEL
FACHHOCHSCHULE KEMPTEN - NEU-ULM HOCHSCHULE FÜR TECHNIK
CHRISTIAN-ALBRECHTS-UNIVERSITÄT KIEL
FACHHOCHSCHULE KIEL
FACHHOCHSCHULE RHEINLAND-PFALZ; ABTEILUNG KOBLENZ
FACHHOCHSCHULE KÖLN
RHEINISCHE FACHHOCHSCHULE KÖLN
TECHNISCHE HOCHSCHULE KÖTHEN
FACHHOCHSCHULE ANHALT BERNBURG-DESSAU-KÖTHEN
FACHHOCHSCHULE KONSTANZ - Hochschule für Technik, Wirtschaft u. Gestaltung
FACHHOCHSCHULE NIEDERRHEIN; KREFELD
SÜDDEUTSCHE HOCHSCHULE FÜR BERUFSTÄTIGE LAHR
FACHHOCHSCHULE LANDSHUT
TECHNISCHE HOCHSCHULE LEIPZIG
HOCHSCHULE FÜR TECHNIK, WIRTSCHAFT u. KULTUR LEIPZIG
DEUTSCHE TELEKOM FACHSCHULE LEIPZIG
OSTDEUTSCHE HOCHSCHULE FÜR BERUFSTÄTIGE LEIPZIG
TECHNISCHE HOCHSCHULE „CARL SCHORLEMMER“ LEUNA-MERSEBURG
FACHHOCHSCHULE LIPPE; LEMGO
FACHHOCHSCHULE LÜBECK
FACHHOCHSCHULE NORDOSTNIEDERSACHSEN: LÜNEBURG
TECHNISCHE UNIVERSITÄT „OTTO VON GUERICKE“ MAGDEBURG
FACHHOCHSCHULE MAGDEBURG
FACHHOCHSCHULE RHEINLAND-PFALZ; ABTEILUNG MAINZ
FACHHOCHSCHULE FÜR TECHNIK MANNHEIM
INGENIEURHOCHSCHULE MITTWEIDA
HOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT MITTWEIDA
FACHHOCHSCHULE MÜNCHEN
TECHNISCHE UNIVERSITÄT MÜNCHEN
UNIVERSITÄT DER BUNDESWEHR MÜNCHEN
FACHHOCHSCHULE MÜNSTER
FACHHOCHSCHULE NEUBRANDENBURG
GEORG-SIMON-OHM-FACHHOCHSCHULE NÜRNBERG
FACHHOCHSCHULE OFFENBURG
FACHHOCHSCHULE OLDENBURG
FACHHOCHSCHULE OSNABRÜCK
UNIVERSITÄT-GESAMTHOCHSCHULE PADERBORN
FACHHOCHSCHULE PFORZHEIM - HOCHSCHULE FÜR GESTALTUNG, TECHNIK UND
WIRTSCHAFT
UNIVERSITÄT POTSDAM
FACHHOCHSCHULE POTSDAM
FACHHOCHSCHULE RAVENSBURG-WEINGARTEN
FACHHOCHSCHULE REGENSBURG

FACHHOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT REUTLINGEN
 FACHHOCHSCHULE ROSENHEIM
 UNIVERSITÄT ROSTOCK
 HOCHSCHULE FÜR TECHNIK UND WIRTSCHAFT SAARBRÜCKEN
 UNIVERSITÄT DES SAARLANDES SAARBRÜCKEN
 FACHHOCHSCHULE SCHMALKALDEN
 FACHHOCHSCHULE LAUSITZ - SENFTENBERG
 UNIVERSITÄT-GESAMTHOCHSCHULE SIEGEN
 FACHHOCHSCHULE FÜR TECHNIK STUTTGART
 FACHHOCHSCHULE RHEINLAND-PFALZ; ABTEILUNG TRIER
 UNIVERSITÄT STUTTGART
 UNIVERSITÄT ULM
 FACHHOCHSCHULE ULM
 BERGISCHE UNIVERSITÄT-GESAMTHOCHSCHULE WUPPERTAL
 FACHHOCHSCHULE ULM
 HOCHSCHULE FÜR SEEFAHRT WARNEMÜNDE-WUSTROW
 FACHHOCHSCHULE WEDEL
 BAUHAUSUNIVERSITÄT WEIMAR / HOCHSCHULE FÜR ARCHITEKTUR UND BAUWESEN WEIMAR
 FACHHOCHSCHULE RAVENSBURG-WEINGARTEN - HOCHSCHULE FÜR TECHNIK u.
 SOZIALWESEN
 FACHHOCHSCHULE HARZ - HOCHSCHULE FÜR WIRTSCHAFT UND TECHNIK
 FACHHOCHSCHULE WIESBADEN
 TECHNISCHE FACHHOCHSCHULE WILDAU
 FACHHOCHSCHULE WILHELMSHAVEN
 HOCHSCHULE WISMAR - FACHHOCHSCHULE FÜR TECHNIK, WIRTSCHAFT u. GESTALTUNG
 FACHHOCHSCHULE WORMS
 BERGISCHE UNIVERSITÄT GESAMTHOCHSCHULE WUPPERTAL
 FACHHOCHSCHULE WÜRCOURG-SCHWEINFURT
 HOCHSCHULE FÜR TECHNIK, WIRTSCHAFT u. SOZIALWESEN ZITTAU / GÖRLITZ - TECHNISCHE
 HOCHSCHULE ZITTAU
 HOCHSCHULE FÜR TECHNIK u. WIRTSCHAFT / TECHNISCHE HOCHSCHULE ZWICKAU

3.6 Estland - L'Estonie - Esthonia

3.7 Finnland – Finlande – Finland

LAPPEENRANNAN TEKNILLINEN KORKEAKOULU (LTKK)
 OULUN YLIOPISTO - TEKNILLINEN TIEDEKUNTA (OY)
 TAMPEREEN TEKNILLINEN KORKEAKOULU (TTKK)
 TEKNILLINEN KORKEAKOULU (TKK) - HELSINKI
 ESPOO - VANTAAN TEKNILLINEN OPPILAITOS
 HELSINGIN TEKNILLINEN OPPILAITOS
 HÄMEENLINNAN TEKNILLINEN OPPILAITOS
 IMATRAN TEKNILLINEN OPPILAITOS
 JYVÄSKYLÄN TEKNILLINEN OPPILAITOS
 KAJAANIN TEKNILLINEN OPPILAITOS
 KOKKOLAN TEKNILLINEN OPPILAITOS
 KOTKAN TEKNILLINEN OPPILAITOS
 KUOPION TEKNILLINEN OPPILAITOS
 LAPPEENRANNAN TEKNILLINEN OPPILAITOS
 MIKKELIN TEKNILLINEN OPPILAITOS
 OULUN TEKNILLINEN OPPILAITOS
 PORIN TEKNILLINEN OPPILAITOS
 RAAHEN TEKNILLINEN OPPILAITOS
 RIIHIMÄEN TEKNILLINEN OPPILAITOS
 ROVANIEMEN TEKNILLINEN OPPILAITOS
 TAMPEREEN TEKNILLINEN OPPILAITOS
 TEKNISKA LÄROVERKET I HELSINGFORS
 TURUN TEKNILLINEN OPPILAITOS
 VAASAN TEKNILLINEN OPPILAITOS
 WALTER AHLSTRÖMIN TEKNILLINEN OPPILAITOS (VARKAUS)
 VASA TEKNISKA LÄROANSTALT
 WÄRTSILÄN TEKNILLINEN OPPILAITOS (JOENSUU)
 ALANDS TEKNISKA LÄROVERK

3.8 Frankreich - France – France

ECOLE DE L'AIR - SALON DE PROVENCE (EA)
ECOLE NATIONALE SUPERIEURE DE PHYSIQUE DE MARSEILLE (ENSPM)
INSTITUT UNIVERSITAIRE DES SYSTEMES THERMIQUES INDUSTRIELS - UNIVERSITE DE PROVENCE - AIX-MARSEILLE I (JUSTI-UP)
INSTITUT UNIVERSITAIRE DES SCIENCES POUR L'INGENIEUR DE MARSEILLE - AIX-MARSEILLE III (IUSPIM)
ECOLE SUPERIEURE D'INGENIEURS DE MARSEILLE (ESIM)
UNIVERSITE DE TECHNOLOGIE DE COMPIEGNE (UTC)
ECOLE NATIONALE D'INGENIEURS DE BELFORT (ENIBe)
ECOLE NATIONALE SUPERIEURE DE MECANIQUE ET DES MICROTECHNIQUES (ENSMM)
ECOLE NATIONALE SUPERIEURE DE CHIMIE ET DE PHYSIQUE DE BORDEAUX (ENSCP)
ECOLE NATIONALE SUPERIEURE D'ELECTRONIQUE ET DE RADIOELECTRICITE DE BORDEAUX (ENSERB)
INSTITUT DES SCIENCES DE LA MATIERE ET DU RAYONNEMENT (ISMRA)
UNIVERSITE DE CLERMONT-FERRAND II - CENTRE UNIVERSITAIRE DES SCIENCES ET TECHNIQUES (CUST)
CENTRE D'ETUDES SUPERIEURES DES TECHNIQUES INDUSTRIELLES SAINT OUEN (CESTI)
ENSG DE SAINT MANDE - ECOLE NATIONALE DES SCIENCES GEOGRAPHIQUES
INSTITUT SUPERIEUR DES MATERIAUX ET DE LA CONSTRUCTION MECANIQUE - SAINT OUEN (ISMCM)
UNIVERSITE PARIS XIII - CENTRE SCIENTIFIQUE ET POLYTECHNIQUE (CSP)
ECOLE SUPERIEURE D'INGENIEURS EN ELECTROTECHNIQUE ET ELECTRONIQUE DE LA CHAMBRE DE COMMERCE ET D'INDUSTRIE DE PARIS (ESIEE)
ECOLE NATIONALE SUPERIEURE D'ELECTRONIQUE ET DE RADIOELECTRICITE DE GRENOBLE (ENSERG)
ECOLE NATIONALE SUPERIEURE D'INGENIEURS ELECTRICIENS DE GRENOBLE (ENSIEG)
ECOLE NATIONALE SUPERIEURE D'HYDRAULIQUE ET DE MECANIQUE DE GRENOBLE (ENSHMG)
ECOLE NATIONALE SUPERIEURE D'INFORMATIQUE ET DE MATHEMATIQUES APPLIQUEES DE GRENOBLE (ENSIMAG)
ECOLE NATIONALE SUPERIEURE DE PHYSIQUE DE GRENOBLE (ENSPG)
UNIVERSITE DE GRENOBLE I - UNITE DE FORMATION ET DE RECHERCHE DES SCIENCES ET TECHNIQUES (ISTG)
UNIVERSITE DE CHAMBERY - ECOLE SUPERIEURE D'INGENIEURS EN GENIE DE L'ENVIRONNEMENT ET DE LA CONSTRUCTION (ESIGEC)
ECOLE NATIONALE SUPERIEURE D'INGENIEURS DE MECANIQUE ENERGETIQUE DE VALENCIENNES (ENSIMEV)
ECOLE NATIONALE SUPERIEURE DES TECHNIQUES INDUSTRIELLES ET MINES DE DOUAI (ENSTIMD)
INSTITUT INDUSTRIEL DU NORD DE LA FRANCE -LILLE (IDN)
UNIVERSITE LILLE I - ECOLE UNIVERSITAIRE D'INGENIEURS LILLE I (EUDIL)
ECOLE DES HAUTES ETUDES INDUSTRIELLES DE LILLE (HEI)
INSTITUT SUPERIEUR D'ELECTRONIQUE DU NORD (ISEN)
ECOLE CENTRALE DE LYON (ECL)
ECOLE NATIONALE D'INGENIEURS DE SAINT-ETIENNE (ENISE)
INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON (INSA LYON)
INSTITUT DE CHIMIE ET PHYSIQUE INDUSTRIELLES DE LYON (ICPI)
ECOLE NATIONALE SUPERIEURE DES TECHNIQUES INDUSTRIELLES ET DES MINES D'ALES (ENSTIMA)
UNIVERSITE MONTPELLIER II - INSTITUT DES SCIENCES DE L'INGENIEUR DE L'UNIVERSITE MONTPELLIER II (ISIM)
ECOLE DES ETUDES ET RECHERCHES EN INFORMATIQUE ET ELECTRONIQUE DE NIMES (EERIE)
ECOLE NATIONALE D'INGENIEURS DE METZ (ENIM)
ECOLE NATIONALE SUPERIEURE D'ELECTRICITE ET DE MECANIQUE DE NANCY (ENSEM)
UNIVERSITE NANCY I - ECOLE SUPERIEURE DES SCIENCES ET TECHNOLOGIES D'INGENIEUR (ESSTIN)
UNIVERSITE NANCY I - U.F.R. SCIENCES ET TECHNIQUES MATHEMATIQUES, INFORMATIQUE, AUTOMATIQUE
ECOLE NATIONALE SUPERIEURE DE MECANIQUE DE NANTES (ENSM)

UNIVERSITE DE NANTES - INSTITUT DE RECHERCHE ET D'ENSEIGNEMENT SUPERIEUR AUX
TECHNIQUES DE L'ELECTRONIQUE (IRESTE)

UNIVERSITE DE NANTES - INSTITUT DES SCIENCES DE L'INGENIEUR EN THERMIQUE;
ENERGETIQUE ET MATERIAUX (ISITEM)

ECOLE SUPERIEURE D'ELECTRONIQUE DE L'OUEST - ANGERS (ESEO)

UNIVERSITE DE NICE - ECOLE SUPERIEURE DES SCIENCES INFORMATIQUES DE
L'UNIVERSITE
DE NICE (ESSI)

ECOLE NATIONALE SUPERIEURE DES MINES DE PARIS, INSTITUT SUPERIEUR
D'INFORMATIQUE
ET AUTOMATIQUE (ISIA)

UNIVERSITE D'ORLEANS - ECOLE SUPERIEURE DE L' ENERGIE ET DES MATERIAUX DE
L'UNIVERSITE D'ORLEANS (ESEM)

ECOLE D'INGENIEURS DE TOURS (EIT)

CONSERVATOIRE NATIONAL DES ARTS ET METIERS (CNAM)

COURS SUPERIEUR D'ARMEMENT - PARIS (CSP)

COURS SUPERIEUR DES SYSTEMES D'ARMES TERRESTRES - PARIS (CSSAT)

ECOLE DES INGENIEURS DE LA VILLE DE PARIS (EIVP)

ECOLE NATIONALE DES PONTS ET CHAUSSEES - PARIS (ENPC)

ECOLE NATIONALE SUPERIEURE D'ARTS ET METIERS - PARIS (ENSAM)

ECOLE NATIONALE SUPERIEURE DE TECHNIQUES AVANCEES - PARIS (ENSTA)

ECOLE NATIONALE SUPERIEURE DES TELECOMMUNICATIONS - PARIS (ENST)

ECOLE SUPERIEURE DE PHYSIQUE ET DE CHIMIE INDUSTRIELLE DE LA VILLE DE PARIS
(ESPCI)

INSTITUT IMAGE ET COMMUNICATION; UNIVERSITE PARIS II (IMAC)

UNIVERSITE PARIS VI - INSTITUT DE SCIENCES ET TECHNOLOGIE (IST)

CENTRE D'ETUDES SUPERIEURES INDUSTRIELLES - PARIS (CESI)

ECOLE FRANCAISE D'ELECTRONIQUE ET D'INFORMATIQUE - PARIS (EFREI)

ECOLE SPECIALE DE MECANIQUE ET D'ELECTRICITE - PARIS (ESME)

ECOLE SPECIALE DES TRAVAUX PUBLICS DU BATIMENT ET DE L'INDUSTRIE - PARIS (ESTP)

ECOLE SUPERIEURE 'INFORMATIQUE, ELECTRONIQUE, AUTOMATIQUE - PARIS (ESIEA)

INSTITUT SUPERIEUR D'ELECTRONIQUE DE PARIS (ISEP)

ECOLE NATIONALE SUPERIEURE DE MECANIQUE ET D'AEROTECHNIQUE
DE POITIERS (ENSMA)

UNIVERSITE DE POITIERS - UNITE DE FORMATION ET DE RECHERCHE SCIENCES
ET TECHNIQUES

ECOLE NATIONALE D'INGENIEURS DE BREST (ENIB)

ECOLE NATIONALE SUPERIEURE DES TELECOMMUNICATIONS DE BRETAGNE - BREST
(ENSTBr)

ECOLE SPECIALE MILITAIRE DE ST CYR - COETQUIDAN / RENNES (ESM)

ECOLE SUPERIEURE DE L'ELECTRONIQUE DE L'ARMEE DE TERRE RENNES (ESEAT)

ECOLE NATIONALE SUPERIEURE DES INGENIEURS DES ETUDES ET TECHNIQUES
D'ARMEMENT (ENSIETA)

ECOLE SUPERIEURE D'INGENIEURS EN GENIE ELECTRIQUE ROUEN (ESIGELEC)

ECOLE NATIONALE SUPERIEURE DES ARTS ET INDUSTRIES DE STRASBOURG (ENSAIS) – until
2003

INSTITUT NATIONAL DES SCIENCES APPLIQUEES (INSA) STRASBOURG – since 2003

ECOLE NATIONALE SUPERIEURE DE PHYSIQUE STRASBOURG I (ENSPS)

ECOLE NATIONALE DE L'AVIATION CIVILE DE TOULOUSE (ENAC)

ECOLE NATIONALE D'INGENIEURS - TARBES (ENIT)

ECOLE NATIONALE SUPERIEURE D'ELECTROTECHNIQUE, D'ELECTRONIQUE,
D'INFORMATIQUE ET D'HYDRAULIQUE DE TOULOUSE (ENSEEIH)

ECOLE NATIONALE SUPERIEURE DE L'ELECTRONIQUE ET DE SES APPLICATIONS
- CERGY (ENSEA)

ECOLE POLYTECHNIQUE - PALAISEAU (EP)

ECOLE SUPERIEURE DES GEOMETRES ET TOPOGRAPHES - EVRY (ESGT)

INSTITUT D'INFORMATIQUE D'ENTREPRISE (C.N.A.M.) EVRY (IIE)

INSTITUT NATIONAL DES TELECOMMUNICATIONS - EVRY (INT)

UNIVERSITE PARIS XI - DEPARTEMENT DE GENIE INDUSTRIEL (FIUPSO)

ECOLE POLYTECHNIQUE FEMININE - SCEAUX (EPF)

ECOLE SUPERIEURE D'ELECTRICITE - GIF SUR YVETTE (ESE)

ECOLE SUPERIEURE DES TECHNIQUES AERONAUTIQUES ET DE CONSTRUCTION
AUTOMOBILE
- LEVALLOIS PERRET (ESTACA)

ECOLE NATIONALE SUPÉRIEURE DE TECHNIQUES AVANCÉES
 ECOLE SUPÉRIEURE D'INGÉNIEURS DE MARSEILLE
 ECOLE NAVALE
 INSTITUT DES SCIENCES DE LA MATIÈRE ET DU RAYONNEMENT
 ECOLE NATIONALE SUPÉRIEURE DE MÉCANIQUE ET DES MICROTECHNIQUES
 INSTITUT NATIONAL DES SCIENCES APPLIQUÉES ROUEN
 ECOLE TECHNIQUE SUPÉRIEURE DU LABORATOIRE, PARIS
 ECOLE SUPÉRIEURE DES INDUSTRIES DU VÊTEMENT, PARIS
 ECOLE SUPÉRIEURE D'ÉLECTRICITÉ ET DE MÉCANIQUE INDUSTRIELLE (ECOLE VIOLET)
 ECOLE SUPÉRIEURE DE MÉCANIQUE DE MARSEILLE (ESM2)
 INSTITUT POLYTECHNIQUE DE SEVENANS - BELFORT (IPS)
 ECOLE SUPÉRIEURE D'INGÉNIEURS EN GENIE DES TECHNIQUES INDUSTRIELLES -PAU
 (ESI-GTI)
 INSTITUT FRANÇAIS DE MÉCANIQUE AVANCÉE CLERMONT FERRAND (IFMA)
 ECOLE SUPÉRIEURE D'INGÉNIEURS EN INFORMATIQUE ET GENIE DES TELECOMMUNICATION
 - FONTAINEBLEAU (ESIGETEL)
 FORMATION D'INGÉNIEURS DE RECHERCHE EN SCIENCES ET TECHNOLOGIE DES MATERIAUX
 - DIJON (FIRST)
 ECOLE NATIONALE SUPÉRIEURE DE GENIE INDUSTRIEL - GRENOBLE (ENSGI)
 ECOLE D'INGÉNIEURS DU PAS-DE-CALAIS - ARQUES (EIPC)
 INSTITUT SUPÉRIEUR INDUSTRIEL DE VALENCIENNES (ISIV)
 INSTITUT SUPÉRIEUR DES TECHNIQUES AVANCÉES DE SAINT-ETIENNE (ISTA)
 INSTITUT DES SCIENCES ET DES TECHNIQUES DE L'INGÉNIEUR DE LYON (ISTIL)
 ECOLE NATIONALE SUPÉRIEURE D'INGÉNIEURS DE LIMOGES (ENSIL)
 ECOLE SUPÉRIEURE D'INFORMATIQUE ET APPLICATIONS DE LORRAINE - NANCY (ESIAL)
 ECOLE EUROPÉENNE D'INGÉNIEURS EN GENIE DES MATERIAUX NANCY (EEIGM)
 ECOLE SUPÉRIEURE ATLANTIQUE D'INGÉNIEURS EN GENIE ELECTRIQUE
 - SAINT NAZAIRE (ESA IGELEC)
 ECOLE NATIONALE SUPÉRIEURE DES TECHNIQUES INDUSTRIELLES ET DES MINES
 DE NANTES (ENSTIMN)
 INSTITUT DES SCIENCES DE L'INGÉNIEUR DE TOULON ET DU VAR - TOULON (ISITV)
 INSTITUT SUPÉRIEUR D'ÉLECTRONIQUE DE LA MEDITERRANÉE TOULON (ISEM)
 ECOLE SUPÉRIEURE D'INGÉNIEURS DE NICE SOPHIA-ANTIPOLIS - NICE (ESINSA)
 ECOLE D'INGÉNIEURS EN INFORMATIQUE POUR L'INDUSTRIE -TOURS (E3I)
 ECOLE SUPÉRIEURE DES PROCÉDES ÉLECTRONIQUES ET OPTIQUES - ORLEANS (ESPEO)
 ECOLE CENTRALE D'ÉLECTRONIQUE - PARIS (ECE)
 ECOLE D'INGÉNIEURS EN GENIE DES SYSTEMES INDUSTRIELS - LA ROCHELLE (EIGSI)
 INSTITUT DE FORMATION SUPÉRIEURE EN INFORMATIQUE ET COMMUNICATION
 - RENNES (IFSIC)

3.9 Grèce - Grèce - Greece

ETNIKO METSOVIO POLYTECHNIO - ATHENES
 ARISTOTELIO PANEPISTIMIO - THESSALONIQUE
 PANEPISTIMIO PATRAS - PATRA
 DIMOKRITIO PANEPISTIMIO THRAKIS - KOMOTINI
 POLYTECHNIO KRITIS - CHANEA
 PANEPISTIMIO THESSALIAS - LARISSA

3.10 Irlande - Irlande - Ireland

UNIVERSITY COLLEGE DUBLIN
 UNIVERSITY COLLEGE CORK
 UNIVERSITY COLLEGE GALWAY
 TRINITY COLLEGE DUBLIN
 DUBLIN CITY UNIVERSITY
 UNIVERSITY OF LIMERICK
 COLLEGE OF TECHNOLOGY BOLTON STREET DUBLIN
 COLLEGE OF TECHNOLOGY KEVIN STREET DUBLIN
 CORK REGIONAL TECHNICAL COLLEGE

3.11 Islande - Islande - Iceland

UNIVERSITY OF ICELAND

TECHNICAL COLLEGE OF ICELAND

3.12 talien - Italie – Italy

UNIVERSITA DEGLI STUDI DI ANCONA
UNIVERSITA DEGLI STUDI DI BARI
POLITECNICO DI BARI
UNIVERSITA DEGLI STUDI DI BASLACATA
UNIVERSITA DEGLI STUDI DI BERGAMO
UNIVERSITA DEGLI STUDI DI BOLOGNA
UNIVERSITA DEGLI STUDI DI BRESCIA
UNIVERSITA DEGLI STUDI DI CAGLIARI
UNIVERSITA DELLA CALABRIA
UNIVERSITA DEGLI STUDI DI CASSINO
UNIVERSITA DEGLI STUDI DI CATANIA
UNIVERSITA DEGLI STUDI DI COSENZA
UNIVERSITA DEGLI STUDI DI FERRARA
UNIVERSITA DEGLI STUDI DI FIRENZE
UNIVERSITA DEGLI STUDI DI GENOVA
UNIVERSITA DEGLI STUDI L'AQUILA
UNIVERSITA DEGLI STUDI DI LECCE
UNIVERSITA DEGLI STUDI DI MESSINA
POLITECNICO DI MILANO
UNIVERSITA DEGLI STUDI DI MODENA
UNIVERSITA DEGLI STUDI DI NAPOLI
UNIVERSITA DEGLI STUDI DI PADOVA
UNIVERSITA DEGLI STUDI DI PALERMO
UNIVERSITA DEGLI STUDI DI PARMA
UNIVERSITA DEGLI STUDI DI PAVIA
UNIVERSITA DEGLI STUDI DI PERUGIA
UNIVERSITA DEGLI STUDI DI PISA
UNIVERSITA DEGLI STUDI DI REGIO CALBRIA
UNIVERSITA DEGLI STUDI „LA SAPIENZA“ ROMA 1
UNIVERSITA DEGLI STUDI „TOR VERGATA“ ROMA 2
UNIVERSITA DEGLI STUDI DI SALERNO
POLITECNICO DI TORINO
UNIVERSITA DEGLI STUDI DI TRENTO
UNIVERSITA DEGLI STUDI DI TRIESTE
UNIVERSITA DEGLI STUDI DI UDINE

3.13 Kroatien - Croatie – Croatia

Universität Zagreb
Universität Rijeka
Universität Split
Universität Osijek

3.14 Lettland – Lettonie - Latvia

3.15 Litauen – Lituanie – Lithuania

3.16 Luxemburg - Luxembourg – Luxembourg

INSTITUT SUPERIEUR DE TECHNOLOGIE A LUXEMBOURG

3.17 Malta - Malte – Malta

UNIVERSITY OF MALTA

3.18 Moldavien – Moldavia

3.19 Niederlande - Pays-Bas - The Netherlands

TECHNISCHE UNIVERSITEIT DELFT
TECHNISCHE UNIVERSITEIT EINDHOVEN
UNIVERSITEIT TWENTE
RIJSUNIVERSITEIT GRONINGEN
HOGESCHOOL ALKMAAR
ASCEMENE HOGESCHOOL AMSTERDAM
HOGESCHOOL VAN AMSTERDAM
HOGESCHOOL GELDERLAND
HOGESCHOOL WEST-BRABANT
NATIONALE HOGESCHOOL VOOR TOERISME EN VERKEER
RIJKSHOGESCHOOL IJSELLAND
HOGESCHOOL EINDHOVEN
HOGESCHOOL DRENTHE
HOGESCHOOL ENSCHEDE
HAAGSE HOGESCHOOL
RIJKSHOGESCHOOL GRONINGEN
HOGESCHOOL HAARLEM
HOGESCHOOL HEERLEN
HOGESCHOOL 'S-HERTOGENBOSCH
HOGESCHOOL HOORN-DEN HELDER
NOORDELIJKE HOGESCHOOL LEEUWARDEN
HOGESCHOOL ROTTERDAM EN OMSTREKEN
RK TECHNISCHE HOGESCHOOL RIJSWICK
HOGESCHOOL MIDDEN BRABANT
HOGESCHOOL UTRECHT
HOGESCHOOL VENLO
HOGESCHOOL ZEELAND
CHRISTELIJKE HOGESCHOOL WINDESHEIM

3.20 Norwegen - Norvège – Norway

UNIVERSITETET 1 OSLO
UNIVERSITETET I BERGEN
UNIVERSITETET I TROMSO
ROGALAND DISTRIKSHOGSKOLE
NORGES TEKNISKE HOGSKOLE, NTH
AGDER INGENIOR- OG DISTRIKTHOGSKOLE / HOGSKOLE I AGDER, INGENIORUTDANNINGEN
BERGEN INGENIORHOGSKOLE / HOGSKOLE I BERGEN, INGENIORUTDANNINGEN
GJOVIK INGENIORHOGSKOLE // HOGSKOLE I GJOVIK, INGENIORUTDANNINGEN
HORTEN INGENIORHOGSKOLE / HOGSKOLE I VESTFOLD, INGENIORUTDANNINGEN
HAERENS INGENIORHOGSKOLE / HAERNES INGENIORHOGSKOLE
KONGSBERG INGENIORHOGSKOLE / HOGSKOLE I BUSKERUD, INGENIORUTDANNINGEN
LEVANGER INGENIORHOGSKOLE / HOGSKOLE I NORD-TRONDELAG, INGENIORUTDANNINGEN
MORE OG ROMSDAL INGENIORHOGSKOLE / HOGSKOLE I ÅLESUND, INGENIORUTDANNINGEN
NARVIK INGENIORHOGSKOLE / HOGSKOLE I NARVIK, INGENIORUTDANNINGEN
NKI INGENIORHOGSKOLE / DEN POLYTEKNISKE HOGSKOLEN INGENIORUTDANNINGEN
OSLO INGENIORHOGSKOLE / HOGSKOLE I OSLO, INGENIORUTDANNINGEN
SOGN OG FJORDANE INGENIORHOGSKOLE / HOGSKOLE I SOGN OG FJORDANE, INGENIORUT-
DANNINGEN
STAVANGER INGENIORHOGSKOLE / HOGSKOLE I STAVANGER, INGENIORUTDANNINGEN
TELEMARK INGENIORHOGSKOLE / HOGSKOLE I TELEMARK, INGENIORUTDANNINGEN
TRONDHEIM INGENIORHOGSKOLE / HOGSKOLE I SOR-TRONDELAG, INGENIORUTDANNINGEN
OSTFOLD INGENIORHOGSKOLE / HOGSKOLE I OSTFORD, INGENIORUTDANNINGEN

3.21 Österreich - Autriche – Austria

TECHNISCHE UNIVERSITÄT WIEN
TECHNISCHE UNIVERSITÄT GRAZ

UNIVERSITÄT LINZ
UNIVERSITÄT INNSBRUCK
3.22 Polen - Pologne – Poland

WARSAW UNIVERSITY OF TECHNOLOGY – FACULTY OF TRANSPORTATION - WARSZAWA
WARSAW UNIVERSITY OF TECHNOLOGY – FACULTY OF CARS & HEAVY MACHINES –
WARSZAWA
CRACOW UNIVERSITY OF TECHNOLOGY – INSTITUTE OF RAIL VEHICLES – KRAKOW
CRACOW UNIVERSITY OF TECHNOLOGY – INSTITUTE OF ROAD & RAILWAY ENGINEERING –
KRAKOW
SILESIAN UNIVERSITY OF TECHNOLOGY – FACULTY OF TRANSPORTATION –
KATOWICE
UNIVERSITY OF TECHNOLOGY – POZNAN
UNIVERSITY OF TECHNOLOGY – OPOLC
UNIVERSITY OF TECHNOLOGY – RZESZÓW
UNIVERSITY OF TECHNOLOGY – FACULTY OF TRANSPORTATION – RADOM
UNIVERSITY OF TECHNOLOGY - GDANSK

3.23 Portugal - Portugal – Portugal

UNIVERSIDADE DE AVEIRO
UNIVERSIDADE DE COIMBRA - FACULDADE DE CIENCIAS E TECNOLOGIA
UNIVERSIDADE TÉCNICA DE LISBOA - INSTITUTO SUPERIOR TÉCNICO
UNIVERSIDADE NOVA DE LISBOA - FACULDADE DE CIENCIAS E TECNOLOGIA
UNIVERSIDADE DE MINHO
UNIVERSIDADE DO PORTO - FACULDADE DE ENGENHARIA
UNIVERSIDADE DA BEIRA INTERIOR
ACADEMIA MILITAR
COOPERATIVA DE ENSINO SUPERIOR DE TÉCNICAS AVANÇADAS DE GESTÃO
E INFORMÁTICA - COCITE
INSTITUTO POLITECNICO DE COIMBRA
INSTITUTO POLITECNICO DE FARO
INSTITUTO POLITECNICO DE LISBOA
INSTITUTO POLITECNICO DO PORTO
INSTITUTO POLITECNICO DE SANTAREM
INSTITUTO POLITECNICO DE SETUBAL
INSTITUTO POLITECNICO DE VISEU

3.24 Rumänien - Roumanie – Romania

UNIVERSITATEA TEHNICA DE CONSTRUCTII BUCURESTI
UNIVERSITATEA POLITEHNICA BUCURESTI
UNIVERSITATEA TEHNICA TIMISOARA
UNIVERSITATEA TEHNICA CLUJ NAPOCA
UNIVERSITATEA TEHNICA „Gh. ASACHI“ IASI
UNIVERSITATEA TEHNICA „TRANSILVANIA“ BRASOV
UNIVERSITATEA CRAIOVA
UNIVERSITATEA „DUNAREA DE JOS“ GALATI
UNIVERSITATEA PETROSANI
FACULTATEA DE INGINERIE HUNEDOARA

3.25 Russland – Russie – Russia

Fernöstliche Staatliche Akademie für Verkehrswesen Chabarovsk
Uraler Staatliche Universität für Verkehrswesen Ekaterinburg
Hochschule für Eisenbahnverkehrsengeieure Irkutsk
Staatliche Universität für Verkehrswesen Moskau
Russische Staatliche Offene Technische Universität Moskau
Sibirische Staatliche Universität für Verkehrswesen Novosibirsk
Staatliche Universität für Verkehrswesen Omsk
Staatliche Universität für Verkehrswesen Rostow am Don
Hochschule für Eisenbahnverkehrsengeieure Samara
Staatliche Universität für Verkehrswesen Sankt Petersburg

3.26 Schweden - Suede – Sweden

CHALMERS TEKNISKA HÖGSKOLA - GÖTEBORG (CTH)
LINKÖPINGS UNIVERSITET OCH TEKNISKA HÖGSKOLA (LITH)
KUNGLIGA TEKNISKA HÖGSKOLAN; STOCKHOLM (KTH)
UNIVERSITETET I UPPSALA (UU)
UNIVERSITETET I UMEÅ (UUM)
LUNDS TEKNISKA HÖGSKOLA (LTH)
HÖGSKOLAN I LULEÅ (HLU)

3.27 Schweiz - Suisse – Switzerland

ETHZ - EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH
EPFL - ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

3.28 Serbien – Serbie – Serbia

3.29 Slovakiei - Slovaquie – Slovakia

Technické univerzita v Košiciach – Technical University of Košice
Slovenská technická univerzita v Bratislave – Slovak University of Technology in Bratislava
Technická univerzita vo Zvolene – Technical University Zvolen
Žilinská univerzita v Žiline – University Žilina
Ekonomická univerzita v Bratislave – University of Economics Bratislava
Trencianska univerzita Alexandra Dubceka v Trencine – University Trenchineensis

3.30 Slovenien –Slovénie – Slovenia

3.31 Spanien - Espagne – Spain

UNIVERSIDAD DE CADIZ (UCA)
UNIVERSIDAD DE CASTILLA LA MANCHA (UCLM)
UNIVERSIDAD DE CANTABRIA (UCN)
UNIVERSIDAD DE CORDOBA (UCO)
UNIVERSIDAD DE EXTREMADURA (UEX)
UNIVERSIDAD DE GRANADA (UGR)
UNIVERSIDAD DE LEON (ULE)
UNIVERSIDAD DE MALAGA (UMA)
UNIVERSIDAD DE MURCIA (UMU)
UNIVERSIDAD DE NAVARRA (UNA)
UNIVERSIDAD DE OVIEDO (UOV)
UNIVERSIDAD POLITECNICA DE CATALUNA (UPB)
UNIVERSIDAD PONTIFICIA DE COMILLAS (UPCO)
UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA (UPGC)
UNIVERSIDAD DE LA LAGUNA (ULL)
UNIVERSIDAD POLITECNICA DE MADRID (UPM)
UNIVERSIDAD DE ALCALA DE HENARES (UAH)
UNIVERSIDAD POLITECNICA DEL PAIS VASCO (UPV)
UNIVERSIDAD POLITECNICA DE VALENCIA (UPVA)
UNIVERSIDAD DE SALAMANCA (USA)
UNIVERSIDAD DE SEVILLA (USE)
UNIVERSIDAD DE VIGO (UVI)
UNIVERSIDAD DE LA CORUNA (ULC)
UNIVERSIDAD DE VALLADOLID (UVA)
UNIVERSIDAD DE ZARAGOZA (UZA)
UNIVERSIDAD DE LAS ISLAS BALEARES (UIB)
UNIVERSIDAD PUBLICA DE NAVARRA (UPNA)
ESCUELA POLITECNICA SUPERIOR DEL EJERCITO - MADRID
ESCUELA TECNICA SUPERIOR DE INGENIEROS DE ARMAS NAVALES - MADRID

3.32 Tschechien - Czech Republic - Tchecoslovaquie

3.33 Ukraine – L'Ukraine–Unkraine

Akademie für Eisenbahntransport Charkov

3.34 Ungarn - Hongrie – Hungary

BUDAPESTI MŰSZAKI EGYETEM - BUDAPEST
MISKOLCI EGYETEM - MISKOLC (NEHÉZIPARI MŰSZAKI EGYETEM MISKOLC)
VESZPRÉMI EGYETEM - VESZPRÉM
BANKI DONAT GÉPIPARI MŰSZAKI FŐISKOLA - BUDAPEST
KANDO KALMAN VILLAMOSIPARI MŰSZAKI FŐISKOLA - BUDAPEST, SZÉKESFEHÉRVAR
POLLACK MIHALY MŰSZAKI FŐISKOLA - PÉCS / BAJA
SZÉCHENYI ISTVAN MŰSZAKI FŐISKOLA - GYÖR (KÖZLEKEDÉSI ÉS TAVKÖZLÉSI
MŰSZAKI FŐISKOLA
YBL MIKLOS EPITŐIPARI MŰSZAKI FŐISKOLA - BUDAPEST
GÉPIPARI ÉS AUTOMATIZÁLÁSI MŰSZAKI FŐISKOLA - KECSKEMÉT
BUDAPESTI MŰSZAKI EGYETEM - BUDAPEST
VESZPRÉMI EGYETEM - VESZPRÉM
MISKOLCI EGYETEM DUNAUJVAROSI FŐISKOLAI KAR; DUNAUJVAROS
ÉRDÉSZETI ÉS FAIPARI EGYETEM FÖLDMÉRÉSI ÉS FÖLDRENDEZŐI FŐISKOLAI
KARSZÉKESFEHÉRVÁR
BOLYAI JANOS KATONAI MŰSZAKI FŐISKOLA - BUDAPEST

3.35 Vereinigtes Königreich - Royaume Uni - United Kingdom

UNIVERSITY of ABERDEEN
ASTON UNIVERSITY
ANGLIA POLYTECHNIC UNIVERSTITY
UNIVERSITY of WALES. BANGOR
BATH UNIVERSITY
QUEEN'S UNIVERSITY BELFAST
UNIVERSITY of BIRMINGHAM
BIRMINGHAM CITY POLYTECHNIC / UNIVERSITY OF CENTRAL ENGLAND
BOLTON INSTITUTE OF TECHNOLOGY / BOLTON INSTITUTE OF HIGHER EDUCATION
UNIVERSITY of BRADFORD
BRIGHTON POLYTECHNIC / UNIVERSITY OF BRIGHTON
UNIVERSITY of BRISTOL
BRISTOL POLYTECHNIC / UNIVERSITY OF THE WEST OF ENGLAND
BRUNEL UNIVERSITY
CAMBRIDGE UNIVERSITY
UNIVERSITY OF WALES, CARDIFF
COVENTRY POLYTECHNIC / COVENTRY UNIVERSITY
ROYAL MILITARY COLLEGE OF SCIENCE; SHRIVENHAM / UNIVERSITY CRANFIELD
DERBYSHIRE COLLEGE OF HIGHER EDUCATION / UNIVERSITY OF DERBY
DUNDEE UNIVERSITY
DUNDEE INSTITUTE OF TECHNOLOGY
DURHAM UNIVERSITY
UNIVERSITY of EAST ANGLIA
EDINBURGH UNIVERSITY
ESSEX UNIVERSITY
EXETER UNIVERSITY
GLASGOW UNIVERSITY
GLASGOW COLLEGE OF TECHNOLOGY / GLASGOW CALEDONIAN UNIVERSITY
HATFIELD POLYTECHNIC / UNIVERSITY OF HERTFORDSHIRE
HERIOT-WATT UNIVERSITY
HUDDERSFIELD POLYTECHNIC / UNIVERSITY OF HUDDERSFIELD
HULL UNIVERSITY
HUMBERSIDE COLLEGE OF HIGHER EDUCATION / UNIVERSITY OF HUMBERSIDE
KEELE UNIVERSITY
UNIVERSITY of KENT at CANTERBURY
KINGSTON POLYTECHNIC / KINGSTON UNIVERSITY
LANCASHIRE POLYTECHNIC / UNIVERSITY OF CENTRAL LANCASHIRE

LANCASTER UNIVERSITY
UNIVERSITY of LEEDS
LEEDS POLYTECHNIC / LEEDS METROPOLITAN UNIVERSITY
LEICESTER UNIVERSITY
LEICESTER POLYTECHNIC / DE MONTFORT UNIVERSITY
UNIVERSITY of LIVERPOOL
LIVERPOOL POLYTECHNIC / LIVERPOOL JOHN MOORES UNIVERSITY
UNIVERSITY of LONDON (CITY UNIVERSITY)
UNIVERSITY of LONDON (IMPERIAL COLLEGE)
UNIVERSITY of LONDON (KING'S COLLEGE)
UNIVERSITY of LONDON (QUEEN MARY AND WESTFIELD COLLEGE)
UNIVERSITY of LONDON (ROYAL SCHOOL OF MINES)
UNIVERSITY of LONDON (UNIVERSITY COLLEGE)
CENTRAL LONDON POLYTECHNIC / UNIVERSITY OF WESTMINSTER
CITY OF LONDON POLYTECHNIC / LONDON GUIDHALL UNIVERSITY
POLYTECHNIC OF EAST LONDON / UNIVERSITY OF EAST LONDON
NORTH LONDON POLYTECHNIC / UNIVERSITY OF NORTH LONDON
SOUTH BANK POLYTECHNIC LONDON / UNIVERSITY of GREENWICH
THAMES POLYTECHNIC LONDON / THAMES VALLEY UNIVERSITY
UNIVERSITY of LOUGHBOROUGH
MANCHESTER VICTORIA UNIVERSITY
UNIVERSITY OF MANCHESTER - INSTITUTE OF SCIENCE AND TECHNOLOGY (UMIST)
MANCHESTER UNIVERSITY / UMIST JOINT COURSES
MANCHESTER POLYTECHNIC / MANCHESTER METROPOLITAN UNIVERSITY
MIDDLESEX POLYTECHNIC / MIDDLESEX UNIVERSITY
NAPIER COLLEGE (EDINBURGH) / NAPIER UNIVERSITY
NEWCASTLE UPON TYNE UNIVERSITY
NEWCASTLE POLYTECHNIC / UNIVERSITY of NORTHUMBERLAND at NEWCASTLE
NORTH STAFFORDSHIRE POLYTECHNIC
NOTTINGHAM UNIVERSITY
NOTTINGHAM POLYTECHNIC / NOTTINGHAM TRENT UNIVERSITY
OXFORD UNIVERSITY
OXFORD POLYTECHNIC / OXFORD BROOKES UNIVERSITY
PAISLEY COLLEGE OF TECHNOLOGY / PAISLEY UNIVERSITY
PORTSMOUTH POLYTECHNIC / UNIVERSITY of PORTSMOUTH
UNIVERSITY of READING
ROBERT GORDON'S INSTITUTE OF TECHNOLOGY / ROBERT GORDON UNIVERSITY
ROYAL MILITARY COLLEGE; SHRIVENHAM (RMCS)
ROYAL NAVAL ENGINEERING COLLEGE (RNEC) MANADON
UNIVERSITY of SALFORD
UNIVERSITY of SHEFFIELD
SHEFFIELD CITY POLYTECHNIC
SILSOE COLLEGE
SOUTH WEST POLYTECHNIC / UNIVERSITY of PLYMOUTH
SOUTHAMPTON UNIVERSITY
STAFFORDSHIRE POLYTECHNIC / UNIVERSITY of STAFFORDSHIRE
STRATHCLYDE UNIVERSITY
SUNDERLAND POLYTECHNIC / UNIVERSITY of SUNDERLAND
SURREY UNIVERSITY
SUSSEX UNIVERSITY
SWANSEA UNIVERSITY COLLEGE
TEESIDE POLYTECHNIC / UNIVERSITY of TEESIDE
ULSTER POLYTECHNIC / UNIVERSITY of ULSTER
POLYTECHNIC OF WALES / UNIVERSITY of GLAMORGAN
UNIVERSITY OF WALES; SWANSEA
WARWICK UNIVERSITY
WOLVERHAMPTON POLYTECHNIC / UNIVERSITY of WOLVERHAMPTON
UNIVERSITY of YORK

3.36 Zypern - Chypre – Cyprus

UNIVERSITY OF CYPRUS

**Curriculum
for Railway Specific Education**

(as examples)

Train Maintenance

Course Objective:

Introduction to the scientific methods for stationary preparation and rational use of rail bound rolling stock. The student should be enabled to recognise and evaluate relationships, simulate rolling stock usage conditions and their corresponding approaches and methods, dimension rolling stock parks, and further develop these techniques.

Course Contents:

- cyclic rolling stock usage fundamentals
- planning and monitoring rolling stock usage with linear optimisation
- measuring and evaluating stationary rolling stock service equipment with stochastic conditions
- performance measurement and quantitative dimensioning of propelled rolling stock parks for operational programs
- aspects of high speed transportation

Electric Railways

Course Objective:

Convey the basic fundamentals of structure and operational management of electrical transport systems from the standpoint of theoretical basics as well as implementation of complete systems with components and major assemblies. The lecture presentation will enable the student to evaluate professionally electrical transport systems - consisting of rolling stock and rail energy supply - by virtue of their primary components, applying theoretical basics in an inter-disciplinary fashion

Course Contents:

- comparison of traction types (energy performance, operationally, ecologically)
- evaluation of voltage systems, energy supply concepts
- fundamentals of power calculations for electrical transport systems (F_Z-v-diagram, characteristics of rail stress)
- rolling stock concepts (direct current vehicles, alternating current vehicles, street vehicles)
- power optimised driving
- high speed transport
- reliability, maintenance

Transportation Safety Techniques

Course Objective:

Derive from railway transport technology the resulting operational technological requirements for individual pieces of safety equipment as well as their realisation with consideration for significant technical aspects on examples of future oriented safety technology: recognition of automation opportunities for performance characteristics, performance limitations and the particular problems of modern applied techniques.

With this foundation of knowledge, the student will be capable, in his future profession career, of participating in decisions regarding use of signal box technology from a technical standpoint and contribute competently with further developments.

By conveying equipment design, operation and maintenance information as well as information related to the necessary operational service technical documentation they should be qualified to direct other operational railwaymen in the handling of safety equipment during normal, and also abnormal, operating conditions in a responsible and technologically effective manner.

Course Contents:

- technological and technical requirements on individual safety devices, as derived from the transport process in normal and abnormal conditions
- fundamental considerations for safety and the availability of equipment
- methods for meeting the demands, applied to various generations of safety equipment

- control of modern safety equipment in normal, and abnormal, conditions under the aspect of effective management
- automation of equipment for safety of train movement in railway depots, on the route as well as safety at railway crossings
- train adaptation (technological configuration and technical possibilities)
- overview of safety technical documentation for operational service

Land-Based Transportation Engineering

Course Objective:

Convey the legalities and relationships which underlie the operational planning and operation of land-based transportation. This is to be presented at a level which affords an overall view above the individual systems and describes relationships to users as well as design considerations for equipment and rolling stock.

The student shall be enabled to, professionally judge and evaluate land-based transportation systems as well as use this analysis in a scientific manner to creatively plan and direct transportation processes.

Course Contents:

- network creation with evaluation, route planning, train marshalling planning
- concentration points including interfacing various forms of transportation
- schedule, rolling stock circulation, and service planning
- product definition and description
- communication with the user
- high speed transportation
- operational processes and operational management
- through-put rates and permissible composition of trains in city and regional transportation
- influences of operational process demands on the structure of rolling stock and equipment

Stock Dynamics

Course Objective:

Convey a knowledge of movement conditions affecting rolling stock and trains because the dynamics of moving vehicles is a scientific element in the development of rolling stock and transportation equipment and also necessary for investigation of safety and economic considerations. This includes travel time calculations and energy requirement determinations.

The student shall be enabled to recognise relationships, simulate movement conditions as well as further develop related approaches and methods.

Course Contents:

- movement and movement forces for positional changes of rolling stock and trains
- movement conditions in curves, including curve dependent car body tilt
- mathematical modelling of movement forces by translation
- dynamic movement measurements for propulsion of vehicles
- handling, time and energy aspects
- rolling stock / train movement simulation methods
- travel time and energy requirement calculations

Transportation Construction Fundamentals

Course Objective:

Beginning with general planning and construction law as well as special regulations for transport carriers the course conveys the basics of planning and design, construction and maintenance of rail and road transportation equipment as well as building construction. The unity of planning, design, construction and operation with nuances for a given means of transportation as prerequisite for a balanced and efficient construction planning and maintenance is to be presented. The student shall become qualified to

understand the transportation infrastructure as a significant element in comprehensive transportation processes and evaluate these according to economical and ecological aspects.

Course Contents:

- Railway Installations
 - railway nets, classification of lines and transportation development
 - fundamentals of planning and design for railway lines and railway depots
 - special planning and railway depot configuration
 - constructive formation of railway catenary systems
 - maintenance of railway equipment
 - influence of railway safety upon installation configuration
 - planning procedures and environmental compatibility
- Road Installations
 - legal basics and evaluation of road infrastructure, roadway classification, E- Highways
 - transportation development, transportation loads (demand) and accident occurrences
- Transportation Building Construction
 - basics of planning and design for transportation building construction
 - installations for passenger travel (rail/road)
 - installations for freight transportation (rail/road)
 - installations for service and administration
 - installations for rolling stock maintenance

Fundamental Aspects of Automation

Course Objective:

The course shall convey to the student theoretical-methodical and technological-technical fundamentals of automation that enable transportation engineers to correctly apply process automation in the planning and operation of complex transportation systems and formulate well founded design requirements for the automation equipment design specialist.

Since the peculiarities of processes to be automated substantially influence the use of technical and methodical instrumentation, the subject material for general fundamentals should be taught with transportation specific problematic.

Course Contents:

- transportation techniques and process automation:
 - location and value of innovative automation solutions
- conceptual principles of automation technology
- methodical descriptive fundamentals, modelling and analysis of automation, control and regulating systems with particular consideration for transportation specific requirements
- input for planning and configuring complex process automation solutions

Environment and Transportation

Course Objective:

Conveyance of basic knowledge about the pollution resulting from transportation, in particular the types of pollution, their causes and sources, consequences, and methods of limiting and reducing pollution. The student should be brought to: an expanded environmental awareness through factual information, a recognition of the necessity to relieve pollution, an ability to perform environmental evaluations, an ability to apply transportation engineering technological instrumentation and use these to the benefit of the environment, a consideration for "environmentally responsible transportation".

Course Contents:

- reciprocal effects of transportation and environment

- pollution, -damage caused by transportation (road, rail, water, air); general overview of contaminants, noise, vibration; use of energy, elemental materials, open spaces; separation effect of transportation equipment and currents
- in-depth presentation of particularly harmful pollution by contaminants, sources, manifestation and effect on man and environment; pollution of air, water, soil; hygienic standards; emission status, options to counteract, sound, noise, technical principles, evaluation of sound levels, effects of noise, combating noise, environmental compatibility

Principles of **Transportation Technology**

Course Objective:

Impart a basic knowledge of planning, preparation, execution and post-processing the transportation of passengers and freight including logistics as well as message switching systems, with particular regard for their classification in transportation science fields. The student should become enabled to understand and professionally evaluate: operations, the most important peculiarities, and interactions of major components of land, air, water and message traffic systems by applying logical thought approaches.

Course Contents:

- terminology and definitions
- purpose, classification, division and differentiation between air, water and message traffic systems
- division, manner of operation, performance and primary operational characteristics of rolling stock and equipment for land, air and water transportation systems
- objectives, substance, theoretical system classification, structure, function and methods of logistics
- manner of operation, performance and primary operational characteristics of material communication systems and telecommunication systems
- basic statements to safety, economy and ecology of land, air, and water transportation systems

Information Technology

Course Objective:

Students will acquire a basic awareness of computer sciences. They will assimilate the prerequisites for understanding models and methods, the terminology and thinking processes of computer science professionals. They will become capable of inter-disciplinary co-operation. Students will learn to describe solutions to simple problems and tasks as structured programs and to transform these into higher programming language. They will become experienced in using and evaluating software. They will become aware of the limits and possibilities of various program paradigms and programming styles. Database concepts and presentation of fields of application are user-oriented to permit professional evaluation of available user software.

Course Contents:

- algorithms and programming language as a means of expression
- structure and function of von-Neumann computers
- operating systems and introduction to software technology basics and modern methods of design and maintenance of software
- classification of programming languages; development of programming languages
- comparison of high-level languages with respect to their means of expression and their program structure
- presentation of modular programming concepts and programming styles in high-level programming languages
- purpose and operation of program development aid components
- introduction to database systems, comparison with file work, fields of application

Logistics

Course Objective:

The subject integrates information and methods of natural, technical and economical sciences. Lectures and exercises convey the theoretical fundamentals and methods of logistics in their entirety and in their elements.

The student shall gain expertise in, knowledge and methods of logistics, its use in applicable fields and flow-oriented thought processes as well as in the development and evaluation of modern company and product concepts.

Course Contents:

- flow systems and flows (materials flow, energy flow, information flow; edges, nodes, and nets) of logistics
- logistics evaluation criterion
- functions and tasks of logistics in companies, in particular for the development of strategies and concepts for new service products
- objectives and reciprocal effects of logistic sub-fields, in particular industrial logistics, trade logistics, purchasing logistics, distribution logistics; disposal logistics; transportation logistics; information logistics
- overview of planning methods, control and monitoring of logistics
- procedures for solving logistical problems (among others, location problems, associative problems, sequence problems, tour planning problems)

Quality Control

Course Objective:

Convey the fundamentals necessary to design and operate systems that ensure high levels of quality and safety (service quality, (transportation) safety, environmental and life quality).

Convey the perception that quality must be designed and cannot be achieved alone through testing.

Convey the perception that quality and safety is largely dependent upon the interaction of man and machine.

Convey the structure and operation of quality management systems and the meaning of Total Quality Management.

The student shall recognise the comprehensive significance of quality.

Likewise he should be enabled to develop, measure and evaluate with acknowledged tools of quality engineering. The final objective is to formulate a comprehensive quality awareness and the conviction that he is capable of continuously improving quality through use of scientific methods and processes (Quality improvement as an infinite process). The student will recognise quality as the number 1 strategic success potential.

Course Contents:

- fundamentals of reliability theory (Boolean and Markovian reliability models, man-machine safety models)
- performance/reliability models as a significant application foundation
- fundamentals of maintenance theory (various maintenance theories)
- maintenance strategies for redundant systems
- quality management systems (DIN ISO 9000 ff, quality politics, elements of quality, service quality, customer satisfaction)
- service-oriented quality models
- risk evaluation (analysis, event probability, extent of damage)

Transportation System Theory

Course Objective:

Conveyance of comprehensive knowledge in the planning, structuring, dimensioning and evaluation of transport systems with regard to relevant determinants from the user's viewpoint as well as from the perspective of the creator and operator. The student should become capable of performing, on a

relatively abstract level, an analysis, modelling and evaluation, for the interactive effects of transportation system structure and transportation demand structure on the one hand and, the quality, quantity and scheduling of transport processes on the other hand.

Course Contents:

- basic classification of transportation systems and transport carriers
- theory of transportation system and service characteristics
- measuring the service quality
- basic theories of performance and the performance characteristics of transport systems
- criteria catalogue for evaluation of transportation systems
- performance models of discrete and continuous transport systems
- models for quality, quantity and scheduling of transport systems

Business Administration

Course Objective:

Conveyance of basic knowledge in performance and financial economics of turnover processes in transportation firms. The student should become qualified to master the interfaces, of particular relevance to graduate engineers, to business administration in the form of cost accounting, investment planning and control, production economics, as well as marketing and the use and management of human resources. This includes the safe application of relevant instruments and strategies of business administration.

Course Contents:

- elements of the economic system
- the company as an economic and legal unit (typology, location, legal forms, company mergers)
- production factors
- basics of external and internal accounting
- cost accounting
- financing and investments
- marketing
- production economics
- planning, organisation, control
- personnel management

Geodesy

Course Objectives

- Preparation for employment in the area of geodesy at communal or national level, in the private sector of the economy or in science and research.
- Understanding of interdependencies between geodesy and neighbouring studies (other geological studies, construction, area design, ecology a.s.o.), ability to cooperate in interdisciplinary planning, structuring and design of the human habitat.
- Conveyance of scientific basics, methodological knowledge and instrumental possibilities as well as practical abilities and competences to survey the surface of the earth with all its natural and artificial objects in a geodesical manner, to present and define them.
- Development of the abilities to interpret graphical foundations for planning (maps, situation maps, profiles a.s.o.), design them and convey them to a given location,
- Competence for the creation, maintenance and compression of high-quality geodesical networks and orientation systems as well as the differentiated evaluation of specifications in regards to precision of measurement.
- Knowledge of the importance and ability to implement and control a seamless data flow starting with the computer generated design, through the definition and construction accompanying geodesy until the documentation of stock, the monitoring and final calculation of engineer-construction projects and their adoption into modern geodesical information systems and databases.
- Development of the ability to solve new and specific problems according to scientific basics, independently and with modern tools.

Course Contents

- Mathematics, especially level and spatial trigonometrics, differential- and integral calculation, vector-analysis, error-theory, statistics, geodesical calculation methods.
- Physics, especially geometrical optics and wave-theory
- Astronomical and physical geodesy
- Geodesy and knowledge of relevant instruments
- Terrestrial definition and documentation methods, engineer-geodesy
- Earth-measurement, satellite-geodesy and satellite-based measurement (GPS)
- Photogrammetrics and long distance reconnaissance, digital image processing
- Topographical methods, geology/geomorphology, hydrologics
- Ground measurement, coordinate- und height-systems, geodetical networks, network compression
- Information technology, interactive and graphical data processing in geodesy,
- CAD, digital terrain and height models, profile and earth-mass calculation
- Cartografy, geoinformation systems and property registers
- Property and land register law, rural land structure
- Routing and construction of transportation lines

Continuing Education Programs

1. Recognised as continuing education are:

- state accredited programs of study
- competent participation in research projects
- attending academic courses with a minimum duration of three days
- chairing of continuing education courses and lecturing
- participation in inhouse-training measures for externals or participation in training courses offered by transportation companies with a minimum duration of two days
- participation in engineer association courses with a minimum duration of two days
- participation in at least one professional congress/convention per year
- publications of professional papers

2. Content of Continuing Education

- trends in the field of occupation
- new or enhanced equipment, procedures and technologies
- legal questions
- management
- personnel management
- quality management
- European standards and regulations

The European Railway Engineer Code of Conduct

The code of conduct is an additional guideline and does not replace the engineer's commitment to his national code of honour.

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

They carry out their occupation in harmony with generally accepted rules of morality and civilisation within European societal structures. They recognise, in particular, the right to work and the personal dignity of all those with whom they work.

In this sense, they pledge 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 of technological standards to achieve outstanding performance in accordance with current regulations and in consideration of the laws of the affected country.

His occupational integrity and intellectual honour ensure the unbiased analysis and assessment of a situation as well as his respective decision thereto.

In every business agreement which he enters at his own free will, he recognises his moral obligation to confidentiality. He accepts no payment related to his business activity which has not been approved 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 ongoing education of their members.

The railway engineer only represents himself as such when he is entitled to do so.

Professional Conduct

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

He is responsible for the achievement of services on the highest technical level. In the execution of a task, he resorts to all necessary measures to:

- ensure the safety of human life and property
- ensure and promote a healthy and desirable environment for man.

The railway engineer stands up for the development and operation of environmentally friendly, economically responsible transportation systems.

He encourages fair competition between transport carriers and the creation of corresponding skeleton conditions. He also encourages the consequent use of new techniques, processes and technology.

Through intensive international exchange of information, he promotes improvements which contribute to achieving equality among European railways at high standards.

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 consideration to the extent that these are in keeping with the law and the ethics of his profession
- show respect for nature, the environment, health and safety, and work to serve and for the good of mankind
- supply the public, - to the extent that this falls 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

**Sample of the
Certificate**

UNION EUROPÄISCHER EISENBAHN-INGENIEUR-VERBÄNDE
UNION DES ASSOCIATIONS EUROPÉENNES DES INGÉNIEURS FERROVIAIRES
UNION OF EUROPEAN RAILWAY ENGINEER ASSOCIATIONS

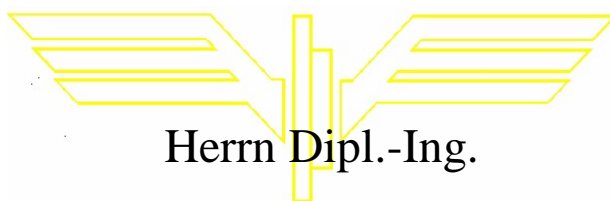


Der Präsident / Le Président / The President

verleiht auf der Basis DIN EN 17024 das Zertifikat
décerne conformément à la norme DIN EN 17024 le certificat d '
confers on basis DIN EN 17024 the certificate

**EUROPÄISCHER EISENBAHNINGENIEUR
INGÉNIEUR FERROVIAIRE EUROPÉEN
EUROPEAN RAILWAY ENGINEER**

EURAIL-ING



Herrn Dipl.-Ing.

First Name Name

Frankfurt a. M., **08.04.2000**

.....
Präsident / Président / President

.....
Leiter des Lenkungsremiums
Responsable du groupe de direction
Head of the steering committee

Urkunden-Nr. / Acte N° / Certificate N° : **D 000/99**

U E E I V

BESCHEINIGUNG ÜBER DIE VERLEIHUNG DER BEZEICHNUNG CERTIFICAT D 'ATTRIBUTION DU TITRE D ' CERTIFICATE OF AWARD OF THE DESIGNATION OF

„EUROPÄISCHER EISENBAHNINGENIEUR“ "INGÉNIEUR FERROVIAIRE EUROPÉEN" "EUROPEAN RAILWAY ENGINEER"

Persönliche Daten / Renseignements personnels / Personal data:

Name / Nom / Name:

Vorname / Prénom / First Name:

Geburtsdatum / Date de naissance / Date of birth:

Geschlecht / Sexe / Gender:

GESAMTAUSBILDUNG ANERKANNT / FORMATION RECONNUE/ ACCREDITED EDUCATION AND TRAINING

Ausbildung / Études / Education

Regelstudienzeit / Durée nominale des études supérieur / nominal duration of higher education:

Praktikum / Stage / Training:

Name der Hochschule / Nom de l'Établissement / Name of the Institution:

Diplom in / Diplôme de / Degree in:

Akademischer Titel / Titre universitaire / Academic Title:

Datum / Date:

Abk. / Abrév. / Abbr.:

Relevante Berufserfahrung / Expérience professionnelle relevante/ Relevant professional experience:

Professioneller Titel (ggf.) / Titre professionnel (le cas échéant) / Professional title (if applicable):

Ausgegeben von / délivré par / issued by:

Datum / Date:

Weitere Ausbildung / Formation complémentaire / Additional Education and Training

Verleihung der Bezeichnung / Attribution du titre / Award of the title „EURAILING“

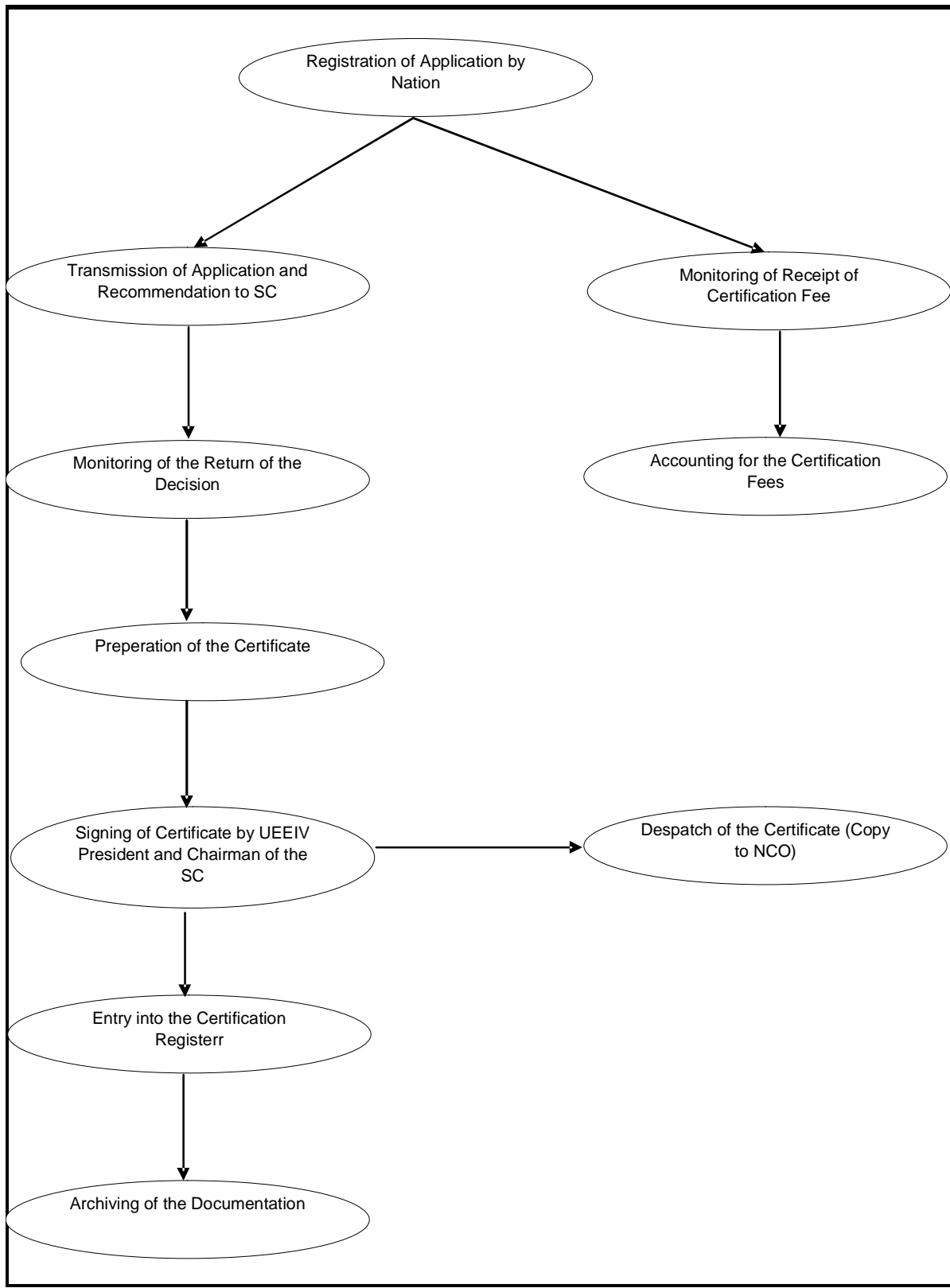
Datum / Date:

Urkunden Nr. / Acte N° /Certificate N°:

Gültig bis / valable jusqu'à / valid until:

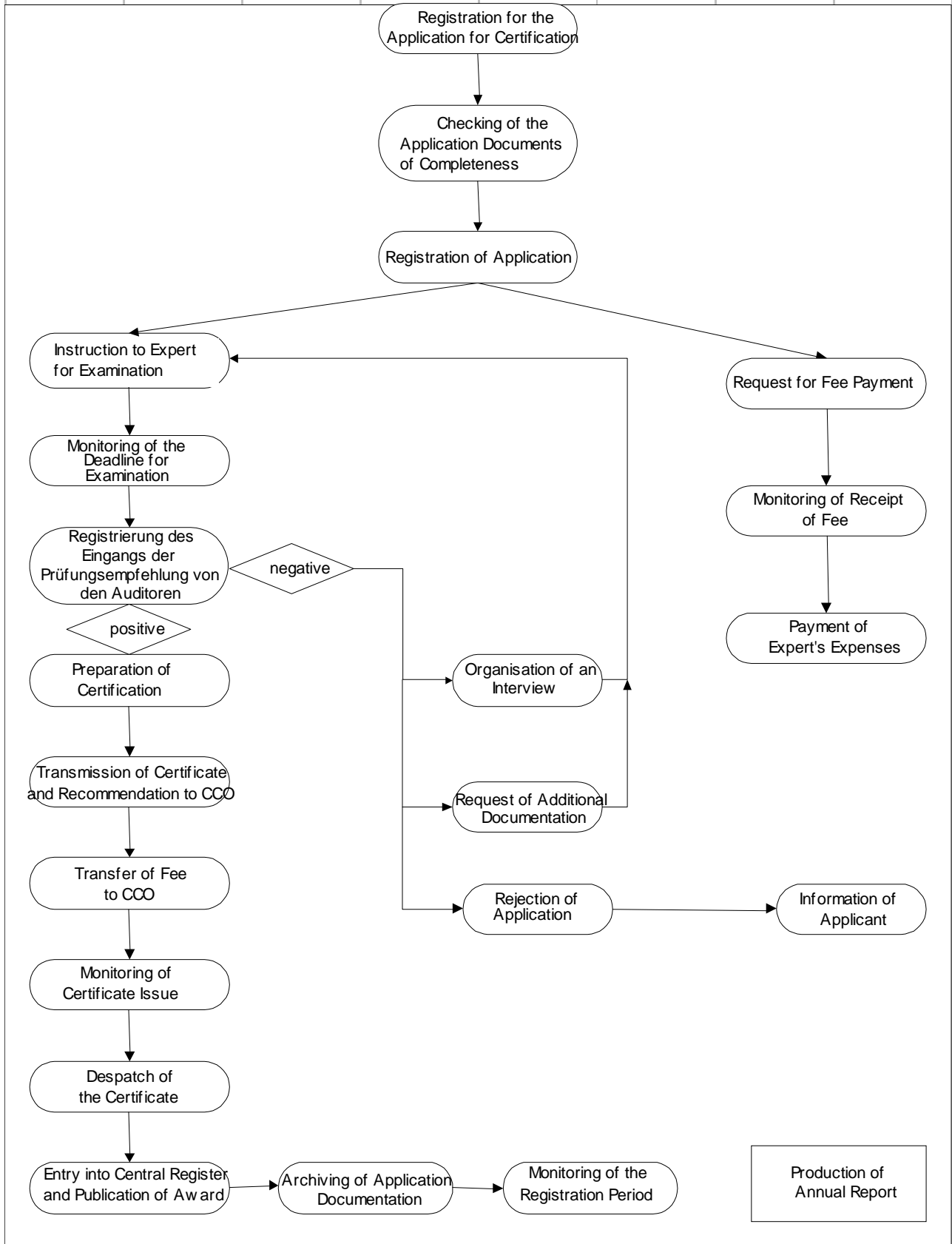
Präsident der UEEIV / Président de l'UEEIV / President of the UEEIV:

Procedures for the Central Certification Bureau

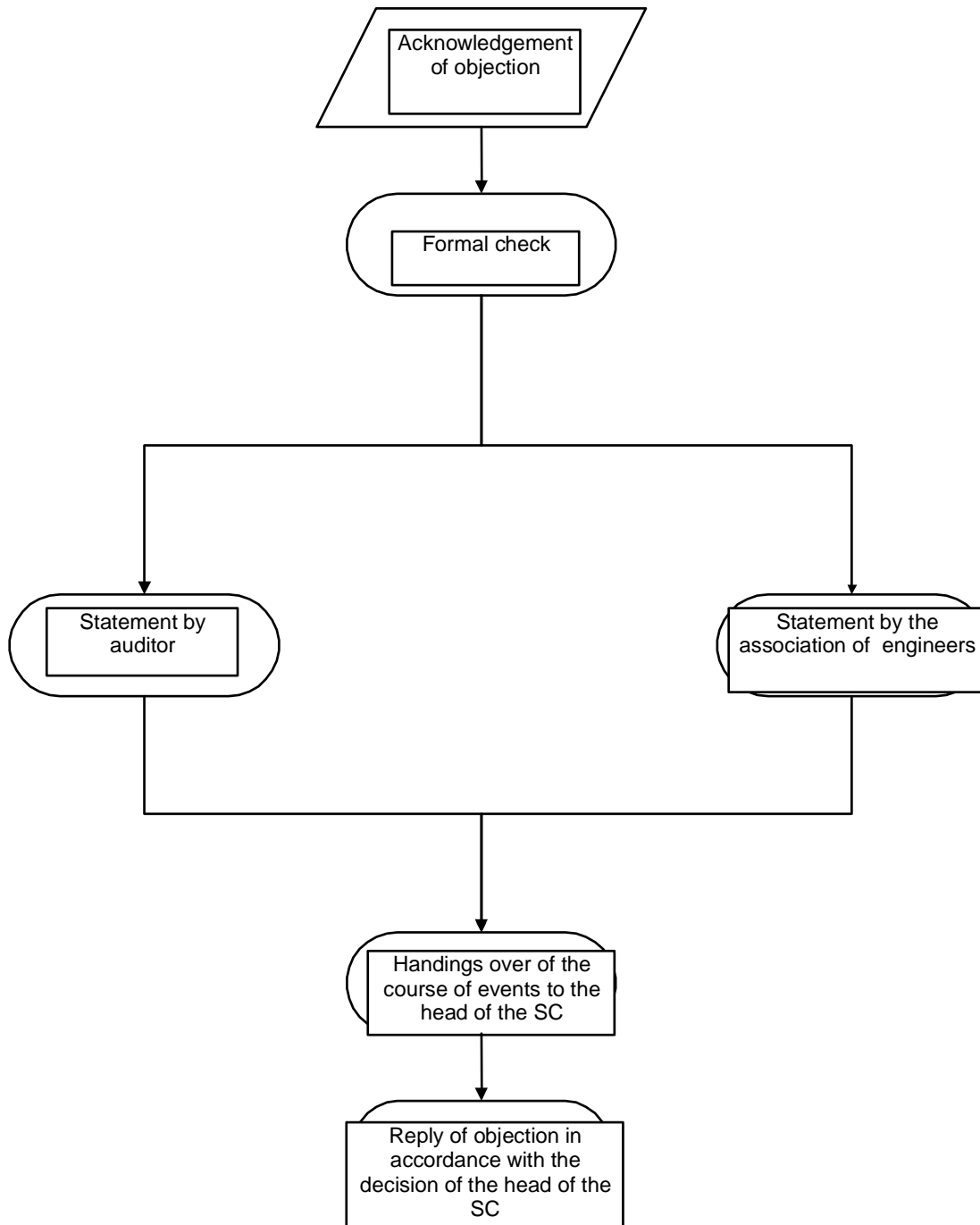


Procedures for the National Certification Office

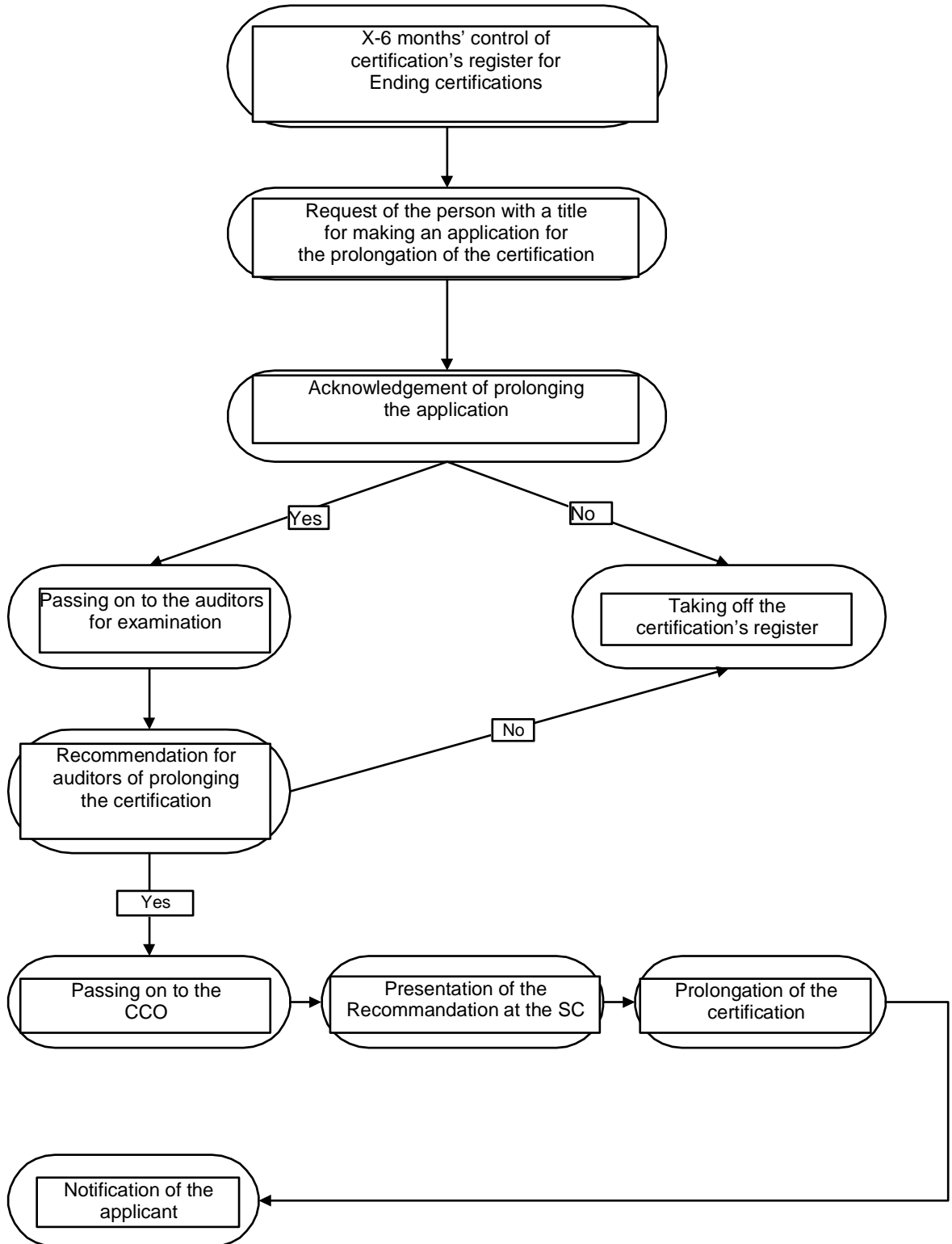
Normal Application Procedure



Proceedings of Complaint when being refused



Ending of Time for Certification



Certification Checklist

Requested by Request dated.....

Address:

.....

Employed with:

HB-line number	Requirements	Condition	Met/not met E / N
1.1	Application range of Applicants (Attachment 11)	<ul style="list-style-type: none"> • Age > 28 years • Railway engineer • Curriculum vitae • Approval to registration of certificate • Academic title • Professional title <p style="text-align: right;">Requirements</p>	
1.2.1	Study (Attachment 3)	<ul style="list-style-type: none"> • High school • Specialised high school • University • Subjects of studies Thesis, railway specific. • Certified certificates • Additional studies <p style="text-align: right;">Requirement</p>	
	Duration of studies	<ul style="list-style-type: none"> • Average duration of studies at least 3 years • Actual duration of studies • Certified certificate <p style="text-align: right;">Requirement</p>	
	Evidence of extended special knowledge in (at least 1) (Attachment 4)	<ul style="list-style-type: none"> • Traffic System theory • Electrified railways • Traffic safety technology • Land Transport Engineering (incl. Railway operation) • Driving dynamics • Traffic/transport structures, basics • Certified certificates <p style="text-align: right;">Requirement</p>	
	Evidence of additional special knowledge in (at least 2) (Attachment 4)	<ul style="list-style-type: none"> • Ergonomics • Automation technologies, basics • Environment and transport • Transport technologies, basics 	

HB-line number	Requirements	Conditions	Met / not met E / N
1.2.1 contd.		<ul style="list-style-type: none"> • Computer science • Logistics • Quality control • Management studies • Environmental law • Infrastructure and Traffic Management • Marketing • Traffic History • Contract and liability law • European law • Standards • Patent law • National regulations of railways • European railway standards • European awarding directives • Geodesy • Certified certificate <p style="text-align: right;">Requirement</p>	
	Language knowledge	<ul style="list-style-type: none"> • At least one foreign language • Certified certificate <p style="text-align: right;">Requirement</p>	
1.2.2	Practical experience	<ul style="list-style-type: none"> • Evidence of state examinations • • Evidence of railway tests • • At least 3 / 4 years practical experience in Europe <ul style="list-style-type: none"> * with railway undertakings * transport enterprises * transport authorities * enterprises producing for theses * enterprises planning for theses * enterprises building for theses * transport research institutions * training institutes for transport 	
		<ul style="list-style-type: none"> • Involvement in projects • Publications • Technical lead positions • Experiences abroad • Certified documents <p style="text-align: right;">Requirements</p>	
	Additional evidence of non-railway specific end of study exams	<ul style="list-style-type: none"> • 2 Semesters additional studies broadening railway-specific knowledge • additional railway-specific training with railway, railway authorities, firms with railway-specific educational facilities • 5-year work with railways, railway authorities; railway-specific firms • > 10 years of experience in an engineer function without engineer diploma but with other university diploma. 	

		<ul style="list-style-type: none"> • Certified documents <p>Questioning of applicants</p> <p>Requirement</p>	
1.2.3	Additional education (Attachment 5)	<p>Evidence of participation in additional education seminars</p> <ul style="list-style-type: none"> • State approved studies • Research tasks • Academic training with a duration of at least 3 days • Management of training events/Lectures • Training within company • Training of transport companies (at least two days) • Seminars of engineer associations (at least two days) • Participation at specialised congresses (in the last three years) • Publications in the field of expertise <p>Requirement</p>	

Questioning of applicant required:

Main subjects of questioning:

Remarks:

Certification recommended / refused

Reasons for decision:

.....
.....

Auditor

Date / signature

Forwarded to the COB on:

[(Sender)]

tel.:
Fax.:

**UEEIV
Generalsekretariat
Kaiserstraße 61

D-60329 Frankfurt a. Main**

[(place / date)]

Certification request for „European Railway Engineer - EURAILING“

I request the certification as „European Railway Engineer - EURAILING“.

With my signature I acknowledge the granting conditions according to the handbook and the rules of conduct without objections. I hereby assure that no prior convictions have been registered against me and no current criminal investigations 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* (reasons for refusal shall be added to the attachment).

I am aware that the right to bear the title expires after ten years. An extension for ten years may be granted if the preconditions are met.

* Please delete if not applicable

.....
(signature)

For personal data see backside

Attachments (all documents in duplicate)

- Curriculum vitae in tabular form
- Documentation of studies and additional training (copies of certificates)
- Documentation of studies and exams
- Documentation of national exams and railway specific exams
- Documentation of duration and specification of railway activities
- Documentation of cooperation in projects and engineer-technical achievements
- Documentation of language skills
- Documentation of nationally required and acknowledged exams, as well as exams of the railways
- Documentation of additional training during the last three years

Personal data:

Name: First name:

Date of birth:

Gender:.....

1st subject of studies:Direct studies/ studies while on the job

Educational institute:

Standard studying period:semester/years duration of studies.....until.....

Practical training (period):

Final examination and/or academic degree:Date:

2nd subject of studies:Direct studies/ studies while on the job

Educational institute:

Standard studying period:semester/years duration of studies.....until.....

Practical training (period):

Final examination and/or academic degree:Date:

Practical experience: Years

Special examinations:

.....

Professional title:

Conferred by:Date:

Language knowledge:

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

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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]

Appendix 12

[(Sender)]

tel.:
Fax.:

**UEEIV
Generalsekretariat
Kaiserstraße 61

D-60329 Frankfurt a. Main**

[(place / date)]

**Application for Renewal
Certification „European Railway Engineer - EURAILING“**

I request the certification as „European Railway Engineer - EURAILING“.

With my signature I acknowledge the granting conditions according to the handbook and the rules of conduct without objections.

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* (reasons for refusal shall be added to the attachment).

I am aware that the right to bear the title expires after five years. An extension for five years may be granted if the preconditions are met.

* Please delete if not applicable

.....
(signature)

For personal data see backside

Attachments (all documents in duplicate)

Personal data:

Name: First name:
.....

Date of birth:
Gender:.....

1st subject of studies: Direct studies/ studies while on the
job

Educational institute:
.....

Standard studying period:semester/years duration of
studies.....until.....

Practical training (period):

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

2nd subject of studies:Direct studies/ studies while on the
job

Educational institute:
.....

Standard studying period:semester/years duration of
studies.....until.....

Practical training (period):

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

Practical experience: Years

Special examinations:
.....
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...
Professional title:
.....
...

Conferred by:Date:
.....

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

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...

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]