



Euroopa Liit
Euroopa Sotsiaalfond



Eesti tuleviku heaks



Republic of Estonia

1. TITLE OF THE CERTIFICATE ⁽¹⁾

Raudteainsener IV

⁽¹⁾ in the original language

2. TRANSLATED TITLE OF THE CERTIFICATE ⁽¹⁾

Railway Engineer IV

⁽¹⁾ if applicable. This translation has no legal status.

3. PROFILE OF SKILLS AND COMPETENCIES

Railway engineers are engineering and/or technology specialists with higher education in the fields of railway maintenance, traffic management and safety as well as of the engineering professional activities in transportation. The railway engineers understand the connection of the engineering professional activity with social, economical, environmental and ethical issues, tasks and ways of solution, and maintain their professional competence through a continuous professional in-service training. They have completed the training necessary for assignment of the professional qualification and they have professional work experience.

The main fields of activity of railway engineers are:

1. Elaboration and implementation of the strategy and development plans for rail transport.
2. Design, implementation and operation of the maintenance system for the railway infrastructure and rolling stock.
3. Elaboration and implementation of specific research programmes, technical requirements and standards for the management of railway traffic and traffic, work and environmental safety, as well as the administration of the railway traffic register.
4. Design and implementation of the technology for the passenger and freight transport, loading equipment and inventory management, as well as the planning of economic activities.
5. Implementation and management of communication and security equipment, information technology, traffic register and databases of railway systems.
6. Applied research in the field of railway technology and training of engineers and organisation of in-service training for specialists.
7. Exercising state supervision.

The anticipated personal characteristics of the railway engineer include ethical behaviour, scientific and technical intellectual power, creative attitude toward the work, independence, responsibility and capacity to exercise will, economic reasonableness, ability to work in a team, skills to manage people and resources, result-oriented.

General skills and knowledge:

- Fundamental principles of economic activity;
- Legislation related to the profession;
- Work environment and safety;
- Management and organisation of work;
- Communication, presentation and written expression skills;
- Principles of quality and environmental management;
- Principles of information and communications technology;

^(*)Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: Council Resolution 93/C 49/01 of 3 December 1992 on the transparency of qualifications, Council Resolution 96/C 224/04 of 15 July 1996 on the transparency of vocational training certificates, and Recommendation 2001/613/EC of the European Parliament and of the Council of 10 July 2001 on mobility within the Community for students, persons undergoing training, volunteers, teachers and trainers.

More information available at: <http://europass.cedefop.europa.eu/en/home>

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- Competence of sustainable development work;
- Basic skills and knowledge:
- Basic subjects of engineering;
 - Structural materials;
 - General knowledge of design;
 - Management and work organisation of a railway company;
 - Railway infrastructure;
 - Transportation safety and environmental protection;
 - Exercising state supervision – the fields of railway operation covered by the state supervision and defined by the law, as well as the tasks and competence of exercising the supervision;
 - Training of railway engineers and specialists.

Special skills and knowledge:

A railway engineer IV is proficient in at least one of the following special skills and knowledge:

- Railway rolling stock and the management of rolling stock;
- Railway traffic and safety;
- Railway automation and communication technology;
- Railway and track management;
- Rail transport technology and management.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE ⁽¹⁾

Railway Engineer

⁽¹⁾ If applicable

5. OFFICIAL BASIS OF THE CERTIFICATE

| Name and status of the body awarding the certificate | Name and status of the national/regional authority providing accreditation/recognition of the certificate |
|--|---|
| The occupational certificate that has been issued by the professional council that operates under the activity license issued by a Awarding Body | Sector Skills Council approved by a Regulation of the Government of the Republic |
| Level of the certificate (national or international) | Grading scale / Pass requirements |
| Railway Engineer IV Estonian Qualifications Framework level 7 | On the basis of documents |
| Railway Engineer IV European Qualifications Framework level 7 | |
| Access to next level of education/training | International agreements |
| Diploma Railway Engineer V Estonian Qualifications Framework level 7 | |
| Diploma Railway Engineer V European Qualifications Framework level 7 | |
| Legal basis | |
| Occupational Qualifications Act (RT I 2008, 24, 156; 01.09.2008) | |

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

In order to obtain a occupational certificate, the applicant has to prove all his/her competencies required by the occupational standard and by the procedure for awarding of occupational qualification established by the body awarding the occupational qualification.

- 4 years of vocational higher education and at least 1 year of professional engineering work experience and in-service training,
- or

- 3 years of vocational higher education and 3 years of professional engineering work experience and in-service training.

More information (including a description of the national qualifications system) available at:
www.kutsekoda.ee