

1. TITLE OF THE CERTIFICATE - ET ⁽¹⁾

Volitatud mehaanikainsener, EKR tase 8

⁽¹⁾ In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE ⁽¹⁾

Chartered Mechanical Engineer, EstQF level 8

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

3. PROFILE OF SKILLS AND COMPETENCIES

Mechanical engineers create engineering solutions and ensure that products, machines and systems function efficiently and safely.

They work in the fields of mechanical engineering, engineering and production technology (e.g. the metal, mechanical, aeronautical, automobile, timber, food and chemical industries, agricultural equipment and energetics).

A Chartered Mechanical Engineer, Level 8 is a technical or technology professional with extensive knowledge and experience who develops and creates innovative engineering solutions in at least one of the following subfields:

- product development
- research activity and training
- production engineering
- materials engineering
- welding engineering
- mechanical and robotic systems
- maintenance of equipment and systems

A chartered mechanical engineer works in situations that demand mastery, that are complex and undefined and that may require new strategic approaches.

Competencies:

1 Mechanical engineering

- Fulfilling technical engineering tasks
- Using information and communication technology (ICT)
- Fulfilling occupational norms

2 Management and supervision

- Management
- Supervision

Elective competencies:

3 Research activity and training

- Research and development

^(*) 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/et/home>

©European Communities 2002

- Educational and education methodology activities
- Working as an expert

4 Product development

- Developing innovative products and technical solutions
- Project management
- Working as an expert

5 Production engineering

- Production management
- Creating innovative technologies
- Creating innovative technological processes and systems
- Developing and implementing production equipment
- Working as an expert

6 Materials engineering

- Creating innovative engineering materials
- Creating and implementing innovative materials technologies
- Working as an expert

7 Welding engineering

- Developing new calculation methods for welding constructions
- Designing and implementing innovative welding technologies
- Designing quality systems for welding
- Working as an expert

8 Mechanical and robotic systems

- Designing mechanical and robotic systems
- Designing robot technologies
- Using ICT when implementing mechanical and robotic systems
- Working as an expert

9 Maintenance of equipment and systems

- Maintenance strategy design
- Maintenance management
- Working as an expert

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

Designer, product development engineer, project manager, production manager, production engineer, manager of operations, consultant, expert, development manager, welding coordinator, strength analysis engineer, etc.

⁽¹⁾ If applicable

5. OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the body awarding the certificate The occupational certificate that has been issued by the professional council that operates under the activity license issued by a Awarding Body	Name and status of the national/regional authority providing accreditation/recognition of the certificate Sector Skills Council approved by a Regulation of the Government of the Republic
Level of the certificate (national or international) Estonian Qualification Framework level 8 European Qualification Framework level 8	Grading scale / Pass requirements passed/fail
Access to next level of education/training	International agreements
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

More information (including a description of the national qualifications system) available at:

www.kutsekoda.ee