

## 1. TITLE OF THE CERTIFICATE - ET <sup>(1)</sup>

**Diplomeeritud mehaanikainsener, EKR tase 7**

<sup>(1)</sup> In the original language

## 2. TRANSLATED TITLE OF THE CERTIFICATE <sup>(1)</sup>

**Diploma Mechanical Engineer, EstQF level 7**

<sup>(1)</sup> 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 certified Mechanical engineer, Level 7 is an experienced technical or technology specialist who develops products or technologies and guarantees the reliability and safety of equipment and systems.

A certified mechanical engineer specialises in product development, production engineering and mechanical and robotic systems.

A certified mechanical engineer operates in difficult situations that require an innovative approach. They are required to work in a team with specialists from connected fields, lead working groups and take responsibility for the performance of employees.

Competencies:

1 Mechanical engineering

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

2 Cooperation and supervision

- Cooperation and management
- Supervision

Specialist areas of work:

3 Product development

- Developing new products and technical solutions
- Improving existing products and technical solutions
- Analysis of product life cycle and environmental impact

4 Production engineering

- Production management
- Technology design
- Designing technological processes and systems

### <sup>(\*)</sup> 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>

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- Developing and implementing production equipment
- Organising the maintenance and repair of production equipment and systems

#### 5 Mechanical and robotic systems

- Designing mechanical and robotic systems
- Designing robot technologies
- Using ICT when implementing mechanical and robotic systems
- Planning the maintenance and repair of mechanical and robotic systems

### 4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE <sup>(1)</sup>

<sup>(1)</sup> If applicable

### 5. OFFICIAL BASIS OF THE CERTIFICATE

<b>Name and status of the body awarding the certificate</b>  The occupational certificate that has been issued by the professional council that operates under the activity license issued by a Awarding Body	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b>  Sector Skills Council approved by a Regulation of the Government of the Republic
<b>Level of the certificate (national or international)</b>  Estonian Qualification Framework level 7 European Qualification Framework level 7	<b>Grading scale / Pass requirements</b>  passed/fail
<b>Access to next level of education/training</b>  Chartered Mechanical Engineer, level 8	<b>International agreements</b>
<b>Legal basis</b> 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](http://www.kutsekoda.ee)