



1. TITLE OF THE PROFESSION

4 0732 07 02 Hűtő- és szellőzésrendszer-szerelő

2. TRANSLATED TITLE OF THE PROFESSION

Cooling and ventilation system fitter
(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

- place great emphasis on the acquisition and correct use of knowledge of electrical engineering, control and regulation;
- install, assemble, operate and maintain refrigeration, air-conditioning, heat pump and ventilation systems on the basis of a specialised design drawn up by the designer;
- apply environmentally sound engineering practices;
- know and use correctly the systems and components, and follow the installation and mounting instructions of the equipment;
- make welded, soldered, pressed and other various types of joints, as well as individual duct elements, shapes, branches, brackets, fasteners and supports;
- check the tightness of pipe joints, to which they can apply thermal and corrosion insulation;
- correct errors that occur during commissioning or operation.

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

7521 Plumber and pipe fitter

7522 Ventilation, cooling and air-conditioning equipment fitter

(*) Explanatory notes:

¹ In the original language. | ² The translation of the designation is provided for information purposes only. | ³ Fill it out if necessary. The certificate supplement provides additional information on the qualification but have no legal value in itself. The format of the description is in conformity with Decision (EU) 2018/646 of the European Parliament and of the Council of 18 April 2018 on a common framework for the provision of better services for skills and qualifications (Europass) and repealing Decision No 2241/2004/EC.

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5. OFFICIAL BASIS OF THE CERTIFICATE													
Name and status of the authority issuing the certificate	Name and status of the national /regional authority providing accreditation/recognition of the certificate Ministry for Innovation and Technology												
Level of the certificate (national or international) NQF level: 4 EQF level: 4 Digital Competence Framework level: 5	Grading scale / Pass requirements Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail <p>The prerequisite of being eligible to sit for a sectoral basic examination is the successful completion of all the required training courses, or the recognised prior learning should incorporate the requirements of the sectoral basic examination. The prerequisite of being eligible to sit for a vocational examination is the successful completion of all the training courses and the uninterrupted professional practice required. In case the student is required to pass a sectoral basic examination, latter shall be recognised with the following weighting: The result of the basic sectoral examination will be computed into that of the vocational examination with the following weighting: Sectoral basic examination: 10%, Vocational examination: 90%</p>												
Certificate number: CXK A Serial number: 123456 Certificate issue date: 2023.12.07	Designation of the theoretical and practical subjects of the sectoral basic examination and the vocational examination and their grades according to a five-grade scale Sectoral basic examination : The examination was passed based on recognised prior learning Vocational examination central interactive <table border="1"> <tr> <td>Cooling and ventilation knowledge</td> <td>5</td> </tr> </table> project exercise <table border="1"> <tr> <td>Cooling and ventilation knowledge in practice</td> <td>5</td> </tr> <tr> <td>Examination part A): Portfolio</td> <td>5</td> </tr> <tr> <td>Examination part B): Project task</td> <td>5</td> </tr> </table> <table border="1"> <tr> <td>Result of the vocational examination in percentage</td> <td>100%</td> </tr> <tr> <td>Result of the vocational examination with grades</td> <td>5</td> </tr> </table>	Cooling and ventilation knowledge	5	Cooling and ventilation knowledge in practice	5	Examination part A): Portfolio	5	Examination part B): Project task	5	Result of the vocational examination in percentage	100%	Result of the vocational examination with grades	5
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Examination part B): Project task	5												
Result of the vocational examination in percentage	100%												
Result of the vocational examination with grades	5												
Access to next level of education/training	International agreements												
Other information concerning the vocational training process													
Legal basis Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act, Act LXXX of 2019 on Vocational Education and Training.													

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of the sectoral basic training and the theoretical and practical vocational training	Distribution of the total number of hours of the programme
Total duration of the education/training	2078 hours

Entry requirements:

- Educational prerequisite: elementary education
- Occupational health aptitude test: required

Further information:

VOCATIONAL PRACTICAL SUBJECT

	HOURS
Introduction to electronics	12 hour
Introduction to building engineering I	12 hour
Technical drawing skills	12 hour
Building engineering measurements I	12 hour
Building engineering piping systems	12 hour
Refrigeration engineering systems I	12 hour
Refrigeration engineering systems II	12 hour
Electrical fitting	12 hour
Ventilation engineering I	12 hour
Ventilation engineering II	12 hour
Introduction to building engineering II	12 hour
Building engineering measurements II	12 hour
Building engineering design documentation and work management	12 hour

VOCATIONAL THEORETICAL SUBJECT

	HOURS
Vocational knowledge	12 hour
Vocational foreign language knowledge	12 hour
Introduction to electronics	12 hour
Introduction to building engineering I	12 hour
Technical drawing skills	12 hour
Refrigeration engineering systems I	12 hour
Refrigeration engineering systems II	12 hour
Electrical fitting	12 hour
Ventilation engineering I	12 hour
Ventilation engineering II	12 hour
Introduction to building engineering II	12 hour
Building engineering measurements II	12 hour
Building engineering design documentation and work management	12 hour

Continuous field practice 160 hour

Altogether 472 hour

Link to the Programme and Outcome Requirements and the Programme Curriculum: <https://ikk.hu>

The present certificate supplement was elaborated in compliance with Government Decree 12/2020 (II. 7.) on the implementation of the Act on Vocational Education and Training.

National Reference Point: National Office of Vocational Education and Training and Adult Learning: <https://nrk.nive.hu>

Head of Examination Organiser:

Issue date: 2023.12.07

SEAL