



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Monteur koude- en klimaatsystemen
Kwalificatiedossier: Koude- en klimaatsystemen
 In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Mechanic refrigeration and climate control systems
Qualification file: Refrigeration and climate control systems
 This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Prepares work on refrigeration and climate control systems and places parts

- 1.1 Does preparations for work on cooling and air conditioning systems
- 1.2 Disassembles components and piping of cooling and air conditioning systems
- 1.3 Places and assembles parts in cooling and air conditioning systems
- 1.4 Lays system of pipes for cooling and air conditioning systems
- 1.5 Completes work on cooling and air conditioning systems

Core task 2: Assembles refrigeration and climate control systems

- 2.1 Assembles refrigeration sub products
- 2.2 In simple systems, determines the position of subproducts and the route to be followed by pipelines
- 2.3 Tests and commissions simple refrigeration and climate control systems

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

The Mechanic refrigeration and climate control systems works at a company which installs, maintains and repairs professional refrigeration & climate control, air treatment, comfort technology and heat pump systems. He carries out work on small to medium-sized commercial refrigeration systems, air conditioners, and heat pump systems. Furthermore, he also works on smaller systems with water and water-glycol as a secondary refrigeration substance.

According to article 3 of the 'Fluorinated greenhouse gasses and regulated refrigeration substances regulations', the Mechanic refrigeration and climate control systems is required to possess a 'Fluorinated greenhouse gasses and regulated refrigeration substances regulations' diploma.

5. OFFICIAL BASIS OF THE CERTIFICATE

Name and status of the body awarding the certificate

The certificate issued on completion of the programme is signed by the examination board at the school where the pupil attended the programme.

Name and status of the national/regional authority providing accreditation/recognition of the certificate

Ministry of Education, Culture and Science

*** 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 is available at: <http://www.europass.cedefop.europa.eu/>

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5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Level of the certificate (national or international) Qualification level 2 of the Dutch VET qualification structure Characteristics: intended as an initial qualification, which everyone should at least obtain. The participant develops skills in order to be able to carry out practical tasks and is responsible for his or her own block of tasks. NLQF-niveau 2 - EQF level 2 - ISCED 3C</p>	<p>Grading scale / Pass requirements</p> <table style="border: none;"> <tr><td>10</td><td>excellent</td></tr> <tr><td>9</td><td>very good</td></tr> <tr><td>8</td><td>good</td></tr> <tr><td>7</td><td>very satisfactory</td></tr> <tr><td>6</td><td>pass</td></tr> <tr><td>5</td><td>fail</td></tr> <tr><td>4</td><td>unsatisfactory</td></tr> <tr><td>3</td><td>very unsatisfactory</td></tr> <tr><td>2</td><td>poor</td></tr> <tr><td>1</td><td>very poor</td></tr> </table>	10	excellent	9	very good	8	good	7	very satisfactory	6	pass	5	fail	4	unsatisfactory	3	very unsatisfactory	2	poor	1	very poor
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6	pass																				
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3	very unsatisfactory																				
2	poor																				
1	very poor																				
<p>Access to next level of education/professions The Mechanic refrigeration and climate control systems can progress on the basis of experience and additional training to the position of Skilled mechanic refrigeration and climate control systems. He can broaden or deepen his knowledge of refrigeration and climate control systems, processes and components, and acquire skills for working with more complex industrial systems and possibly other technical professions. He can specialise in working on more complex and industrial systems.</p>	<p>International agreements</p>																				
<p>Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25563 The education and training for this qualification is offered as of 01-08-2017.</p>																					

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<p>Senior secondary vocational education features two learning pathways: the school-based pathway (bol) and the training on the job pathway (bbl). In the school-based pathway, the majority of the course consists of theory at school. The extent of the practical component (vocational practice) is between 20% and 60%. In the training on the job pathway, the extent of vocational practice is at least 60% of the course. The participant works four days a week in a training company, and attends school for theory subjects just one day a week. In principle it is possible to follow both learning pathways, but which pathway is offered will depend on the individual educational institution.</p>	
<p>Average duration of the education/ training leading to the certificate</p>	<p>2 years (3200 study hours) (depending on previous education)</p>
<p>Entry requirements The certificate preparatory vocational secondary education (vmbo) basic vocational programme, or a comparable level.</p>	

7. ADDITIONAL INFORMATION

<p>Dutch senior secondary VET is based on qualification files, that each contain one or more qualifications. The information included in part 3 and 4 is derived directly from the qualification file determined by the Minister of Education, Culture and Science. The complete qualification file can be found at kwalificaties.s-bb.nl, only in Dutch.</p> <p>Optional subjects are linked to the qualification. The optional subjects have a total size of 15% of the course duration. The optional subjects completed by the student are listed on the certificate.</p> <p>Additional information, including a description of the Dutch national qualifications system, is available at the Netherlands National Reference Point (NRP): www.s-bb.nl. The NRP is the information centre for vocational qualifications in the Netherlands. SBB has been appointed in this capacity by the Ministry of Education, Culture and Science.</p>
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