

<b>1. TITLE OF THE CERTIFICATE (NL)</b> <b>Diploma Beroepsonderwijs</b> <b>Kwalificatie: Monteur koude- en klimaatsystemen</b> <b>Kwalificatiedossier: Koude- en klimaatsystemen</b> In the original language
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<b>2. TRANSLATED TITLE OF THE CERTIFICATE (EN)</b> <b>Certificate Senior Secondary Vocational Education</b> <b>Qualification: Mechanic refrigeration and climate control systems</b> <b>Qualification file: Refrigeration and climate control systems</b> This translation has no legal status
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<b>3. PROFILE OF SKILLS AND COMPETENCES</b>
<p>Core task 1: Prepares work on cooling and climate control systems and installs parts</p> <ul style="list-style-type: none"> <li>1.1 Prepares work on cooling and climate control systems</li> <li>1.2 Dismantles components and piping systems of cooling and climate control systems</li> <li>1.3 Places and installs parts in cooling and climate control systems</li> <li>1.4 Installs pipe systems for cooling and climate control systems</li> <li>1.5 Completes work on cooling and climate control systems</li> </ul> <p>Core task 2: Assembles cooling and climate control systems</p> <ul style="list-style-type: none"> <li>2.1 Assembles technical cooling subproducts</li> <li>2.2 Determines the position of subproducts and the route to be followed by pipelines in simple systems</li> <li>2.3 Tests and commissions simple cooling and climate control systems</li> </ul>

<b>4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE</b>
<p>The Mechanic refrigeration and climate control systems works for a company that installs, maintains and repairs systems in the field of professional refrigeration and cooling technology, air treatment, comfort technology and heat pump systems. He carries out installation work on commercial small to medium-sized refrigeration systems, air conditioning and heat pump systems. He also carries out this work on smaller systems with water and glycol-water as secondary refrigerant. When carrying out work in accordance with Article 2 of the 'Regulation on fluorinated greenhouse gases and regulated substances for refrigeration installations, the recovery of fluorinated greenhouse gases or regulated substances, carrying out leak checks on and installing and maintaining refrigeration and climate systems that contain fluorinated greenhouse gases or regulated substances contain or are intended for this purpose, the refrigeration and climate system technician must be in possession of a diploma in the context of the 'Regulation on fluorinated greenhouse gases and regulated substances for refrigeration installations'. The training for this diploma is not part of the qualification for Cold and Climate Systems Technician.</p>

<b>5. OFFICIAL BASIS OF THE CERTIFICATE</b>	
<b>Name and status of the body awarding the certificate</b> The certificate issued on completion of the programme is signed by the examination board at the school where the pupil attended the programme.	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> 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><b>Level of the certificate (national or international)</b>                  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><b>Grading scale / Pass requirements</b></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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<p><b>Access to next level of education/professions</b>                  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><b>International agreements</b></p>																				
<p><b>Legal basis</b>                  Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25282                  The education and training for this qualification is offered as of 01-08-2015.</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><b>Average duration of the education/ training leading to the certificate</b></p>	<p><b>2 years (3200 study hours) (depending on previous education)</b></p>
<p><b>Entry requirements</b>                  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 <a href="http://kwalificaties.s-bb.nl">kwalificaties.s-bb.nl</a>, 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): <a href="http://www.s-bb.nl">www.s-bb.nl</a>. 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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