

CERTIFICATE SUPPLEMENT (*)

1. TITLE OF THE CERTIFICATE (NL)
Diploma Beroepsonderwijs Kwalificatie: Airco/warmtepompmonteur Kwalificatiedossier: Koude- en klimaatsystemen <small>In the original language</small>

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)
Certificate Senior Secondary Vocational Education Qualification: Air conditioning/heat pump mechanic Qualification file: Refrigeration and climate control systems <small>This translation has no legal status</small>

3. PROFILE OF SKILLS AND COMPETENCES
<p>The most important duties of an Air conditioning/heat pump mechanic are:</p> <p>Core task 1: Prepares work on refrigeration and climate control systems and places parts</p> <ul style="list-style-type: none"> 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 <p>Core task 2: Works on cooling systems</p> <ul style="list-style-type: none"> 2.1 Assembles technical cooling systems 2.2 Carries out maintenance on and solves problems in cooling systems 2.3 Tests and adjusts cooling systems in operation

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE
<p>The Air conditioning/heat pump mechanic carries out technical work on various cooling systems such as air conditioning. He always works on location ranging from homes to school buildings or shops. He is involved in the construction of cooling systems but also maintenance work and problem solving.</p>

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
Level of the certificate (national or international)	Grading scale / Pass requirements 10 excellent

*** 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	
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 level 2 - EQF level 2 - ISCED 3C	9 very good 8 good 7 very satisfactory 6 pass 5 fail 4 unsatisfactory 3 very unsatisfactory 2 poor 1 very poor
Access to next level of education/professions The Air conditioning/heat pump mechanic can progress on the basis of experience and additional training to the position of technical draftsman or cold and climate system mechanic. He can broaden or deepen his knowledge of cold technology systems or other technical professions, for example electrical engineer. He can specialise in the installation, maintenance and inspection of cold and climate systems. He can (following necessary practical experience and training) focus on larger and/or more complex cold and climate systems.	International agreements
Legal basis Adult and Vocational Education Act (WEB), registered number of qualification (crebo): 25280 The education and training for this qualification is offered as of August 1, 2015.	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE	
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.	
Average duration of the education/ training leading to the certificate	2 years (3200 study hours) (depending on previous education)
Entry requirements The certificate preparatory vocational secondary education (vmbo) basic vocational programme, or a comparable level.	

7. ADDITIONAL INFORMATION

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 <http://kwalificaties.s-bb.nl/>, only in Dutch.

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.

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.