



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Monteur service en onderhoud installaties en systemen
Kwalificatiedossier: Service- en onderhoudstechniek

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Mechanic service and maintenance installations and systems
Qualification file: Service and maintenance technology

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Inspects equipment, installations and systems

- 1.1 Prepares for the inspection of equipment, installations and systems
- 1.2 Takes precautions for inspection working duties
- 1.3 Performs sensory inspection on equipment, installations and systems
- 1.4 Performs measurements and tests on equipment, installations and systems
- 1.5 Makes an initial diagnosis and reports results
- 1.6 Rounds off inspection work on equipment, installations and systems

Core task 2: Optimises equipment, installations and systems and corrects malfunctions

- 2.1 Prepares for resolving malfunctions and optimising equipment, installations and system
- 2.2 Takes precautionary measures for resolving malfunctions and optimising equipment, installations and systems
- 2.3 Disassembles, modifies, repairs and assembles components of equipment, installations and systems
- 2.4 Checks and tests work performed on equipment, installations and systems
- 2.5 Delivers equipment, installations and systems
- 2.6 Rounds off maintenance and modification work

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

The Mechanic service and maintenance installations and systems works either at a service organisation focused on service (repairs) and maintenance of mechanical installations for hot tap water and climate control (such as water pumps, mechanical ventilation systems, hot water appliances, gas appliances, cooling machines, central heating boilers, solar boilers) or at an organisation that provides service and maintenance in an industrial environment on mechanical equipment. In that case, it may be a company that is hired externally or an internal department. This concerns both small and large companies that operate regionally and/or nationally. He does not work on installations that fall under the inspection obligation according to the Activities Decree and the Emission Requirements Decree on Medium-Sized Combustion Plants (BEMS). The Mechanic service and maintenance installations and systems carries out maintenance on simple mechanical installations and contributes to the maintenance of the mechanical parts of equipment, installations and systems.

*** 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>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.</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate Ministry of Education, Culture and Science</p>																				
<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="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10px;">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>Access to next level of education/professions The Mechanic service and maintenance installations and systems, who is involved with mechanical installations, can progress to Skilled mechanic service and maintenance installations and systems (where he also solves malfunctions). If employed in mechanical engineering, he can progress to Skilled mechanic service and maintenance mechanical engineering or go through specific trainings and experience to broaden his skills into other areas (specialist hydraulics, electrical engineering) and improve his employability.</p>	<p>International agreements</p>																				
<p>Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25308 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>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>

7. ADDITIONAL INFORMATION

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.