



## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs**  
**Kwalificatie: Monteur mechatronica**  
**Kwalificatiedossier: Mechatronica**

In the original language

## 2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Certificate Senior Secondary Vocational Education**  
**Qualification: Mechatronics mechanic**  
**Qualification file: Mechatronics**

This translation has no legal status

## 3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Makes electro-technical and mechatronic products

- 1.1 Does preparatory work for making electro-technical and mechatronic products
- 1.2 Compiles electro-technical and mechatronic products
- 1.3 Compiles and tests electro-technical and mechatronic products
- 1.4 Completes the making of electro-technical and mechatronic products

Core task 2: Constructs mounting surfaces

- 2.1 Prepares the construction of mounting surfaces
- 2.2 Constructs mounting surfaces
- 2.3 Completes the construction of mounting surfaces

Core task 3: Performs mechatronic maintenance

- 3.1 Prepares mechatronic maintenance
- 3.2 Carries out maintenance
- 3.3 Completes maintenance work

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

In mechatronic companies, devices, machines or parts of machines are manufactured. These are used to carry out physical, movement, thermal and control processes, for example. The control process concerns the control of the physical process. This includes lifts, all kinds of placement and sorting machines (pick and place), filling and packaging machines, welding robots, fully automatic milking machines and copy machines. The mechatronics technician mainly works at medium-sized and larger companies that belong to the machine industry and equipment construction sector. This concerns both supplying companies that supply semi-finished products and companies that produce a complete end product. The Mechatronics mechanic performs maintenance on mechatronic products.

## 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><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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6	pass																				
5	fail																				
4	unsatisfactory																				
3	very unsatisfactory																				
2	poor																				
1	very poor																				
<p><b>Access to next level of education/professions</b>                  The Mechatronics mechanic can progress to Skilled mechatronics mechanic or Mechatronics technician. From the field of mechatronics, he can also broaden his knowledge to electro-technical systems or service professions.</p>	<p><b>International agreements</b></p>																				
<p><b>Legal basis</b>                  Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25342                  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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