

# CERTIFICATE SUPPLEMENT (\*)



## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsopleiding**  
**Kwalificatie: Verbrandingsmotortechnicus**  
**Kwalificatiedossier: Verbrandingsmotortechiek**  
In the original language

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

**Certificate Senior Secondary Vocational Education**  
**Qualification: Combustion engine mechanic**  
**Qualification file: Combustion engine technology**  
This translation has no legal status

## 3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Combustion engine mechanic are:

Core task 1: Carrying out maintenance on combustion engines

- 1.1 Prepares maintenance work on the combustion engine
- 1.2 Inspects the combustion engine
- 1.3 Carries out maintenance service on the combustion engine
- 1.4 Measures parts of the combustion engine
- 1.5 Determines the degree of wear on parts of the combustion engine and offers advice
- 1.6 Checks his maintenance work and completes the task

Core task 2: Repairing parts of combustion engines

- 2.1 Prepares repair work on the combustion engine
- 2.2 Repairs/overhauls parts of the combustion engine
- 2.3 Checks his repair work and completes the task

Core task 3: Assembling and adjusting parts of combustion engines

- 3.1 Prepares the assembly work on the combustion engine
- 3.2 Assembles the combustion engine
- 3.3 Adjusts the combustion engine
- 3.4 Checks his assembly and adjustment work and completes the task

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

The Combustion engine mechanic is employed in workshops at specialist companies involved mainly in maintenance and repair work on combustion engines, the installation of appendages on combustion engines (diesel and gas engines), power generators in greenhouses and large (mobile) equipment. Combustion engine mechanics are also active in companies that maintain and repair marine and industrial combustion engines. The

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

Combustion engine mechanic works both within the company (workshop and production area) or outside (at customer location), also internationally.

**5. OFFICIAL BASIS OF THE CERTIFICATE**

<p><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.</p>	<p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Ministry of Education, Culture and Science</p>																				
<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 level 2 - EQF level 2 - ISCED 3C</p>	<p><b>Grading scale / Pass requirements</b></p> <table border="0"> <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> Within senior secondary vocational education (mbo) it is possible for the Combustion engine mechanic to follow a continuous learning line from level 2 to level 3 (Senior Combustion engine mechanic). Career opportunities within the overhaul and diesel engine sector follow sector job structures. As well as transfer on to positions as (senior) service engineer, (damage) assessor and management positions such as team leader, workshop manager and service manager, subject to certain conditions it is also possible to make the shift to sales.</p>	<p><b>International agreements</b></p>																				
<p><b>Legal basis</b> Adult and Vocational Education Act (WEB), registered number of qualification (crebo): 93142 The education and training for this qualification is offered as of August 1, 2010.</p>																					

**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.

<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>
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**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, that is composed by the Centre of Expertise. The complete qualification file can be found at <http://kwalificaties.s-bb.nl/>, only in Dutch.

Additional information, including a description of the Dutch national qualifications system, is available at the Netherlands National Reference Point (NRP): [www.s-bb.nl](http://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.