

# CERTIFICATE SUPPLEMENT (\*)

## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs**  
**Kwalificatie: Eerste verbrandingsmotortechnicus**  
**Kwalificatiedossier: Verbrandingsmotortechiek**  
In the original language

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

**Certificate Senior Secondary Vocational Education**  
**Qualification: Skilled 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 Skilled combustion engine mechanic are:

Core task 1: Carries out maintenance on combustion engines

- 1.1 Prepares maintenance on mechanic combustion engine
- 1.2 Checks the internal combustion engine
- 1.3 Completes maintenance assignment on internal combustion engine
- 1.4 Completes maintenance assignment on internal combustion engine

Core task 2: Repairs combustion engines

- 2.1 Prepares repair work on mechanic combustion engine
- 2.2 Performs repair work on mechanic combustion engine
- 2.3 Completes repair assignment on internal combustion engine

Core task 3: Assembles parts of combustion engines and adjust them

- 3.1 Constructs internal combustion engine on and/or adapts it
- 3.2 Completes assembly assignment on internal combustion engine

Core task 4: Revises combustion engines

- 4.1 Prepares revision task on combustion engines
- 4.2 Does revision to internal combustion engine
- 4.3 Completes revision work on internal combustion engine

Core task 5: Inspects combustion engines

- 5.1 Prepares inspection work on mechanic combustion engine
- 5.2 Performs inspection of mechanic combustion engine
- 5.3 Disassembles and cleans part of internal combustion engine
- 5.4 Makes analysis and drafts report

### \* 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/>

© European Communities 2002 - Version 2010

### 3. PROFILE OF SKILLS AND COMPETENCES

5.5 Completes inspection work on internal combustion engine

Core task 6: Carries out diagnosis working duties on mechanic combustion engine

6.1 Prepares diagnosis working duties on mechanic combustion engine

6.2 Carries out diagnosis working duties on mechanic combustion engine

6.3 Completes the diagnosis working duties on mechanic combustion engine

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

The Skilled combustion engine mechanic is employed in workplaces of combustion engine companies. These companies have for the purpose of revision, maintenance and repair special fitted workplaces. The Skilled combustion engine mechanic also works on location at the customers'. This entails (large) diesel engines and gas engines for ships, gensets for, for instance, hospitals, cogeneration plants for green houses and mobile machinery.

### 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 3 of the Dutch VET qualification structure Characteristics: implementation of more than just the own block of tasks. The professional is able to account for his or her actions towards colleagues, and monitors and supervises the work of others. The range of tasks also includes drafting work preparation procedures. NLQF level 3 - EQF level 3 - 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
10	excellent																				
9	very good																				
8	good																				
7	very satisfactory																				
6	pass																				
5	fail																				
4	unsatisfactory																				
3	very unsatisfactory																				
2	poor																				
1	very poor																				
<p><b>Access to next level of education/professions</b> There is a continuous learning line from the Skilled combustion engine mechanic to a Technical specialist combustion engines. In practice the Skilled combustion engine mechanic will not be promoted straight away but gain some practical experience before moving on at level 4 and only in the training on the job pathway. The Skilled combustion engine mechanic could also be transferred to the one-year course 'Managing and craftsmanship' or to Aftersales manager for the mobility sector.</p>	<p><b>International agreements</b> The profession of a Skilled combustion engine mechanic is not regulated in the Netherlands. However the education and training for this profession on qualification level 3 is regulated under the European directive 2005/36/EC, amended by directive 2013/55/EU. The regulated education and training gives access to regulated professions at the level of a diploma according to article 11 of this directive.</p>																				
<p><b>Legal basis</b> Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25236 The education and training for this qualification is offered as of August 1, 2015.</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,

#### 6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

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.

<b>Average duration of the education/ training leading to the certificate</b>	<b>3 years (4800 study hours) (depending on previous education)</b>
---	---

#### **Entry requirements**

The certificate preparatory vocational secondary education (vmbo) advanced vocational programme, combined programme, or theoretical 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](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.