



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Eerste verbrandingsmotortechnicus
Kwalificatiedossier: Eerste verbrandingsmotortechnicus

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Skilled mechanic combustion engine
Qualification file: Skilled mechanic combustion engine

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Skilled mechanic combustion engine are:

Core task 1: Fixes malfunctions on combustion engine

- 1.1 Does preparatory work for malfunction assignment on combustion engine
- 1.2 Diagnoses combustion engine
- 1.3 Fixes malfunction on combustion engine
- 1.4 Checks his malfunctions working duties
- 1.5 Supports and instructs students and colleagues during malfunctions working duties
- 1.6 Provides technical explanation to customer about carried out malfunction working duties

Core task 2: Revises combustion engine

- 2.1 Does preparatory work for revision assignment on combustion engine
- 2.2 Carries out revision on combustion engine
- 2.3 Builds combustion engine
- 2.4 Checks his revision working duties and completes assignment
- 2.5 Supports and instructs students and colleagues during revision working duties
- 2.6 Provides technical explanation about carried out revision working duties

Core task 3: Inspects combustion engine

- 3.1 Does preparatory work for inspection assignment on combustion engine
- 3.2 Carries out inspection on combustion engine
- 3.3 Demonstrates and cleans parts of combustion engine
- 3.4 Makes analysis and sets up report
- 3.5 Checks his inspection working duties and completes assignment
- 3.6 Supports and instructs students and colleagues during inspection working duties
- 3.7 Provides technical explanation to customer and/or third parties about carried out inspection working duties

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

The Skilled mechanic combustion engine is employed in work places of revision companies and diesel companies which belong to the mobility sector. The Skilled mechanic combustion engine also works on location with customers. The work involves (large) diesel engines and natural gas engines for ships, steam aggregates for, for

*** 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

instance, hospitals, heating plants for green houses and (mobile) vehicles.

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 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>Grading scale / Pass requirements</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>Access to next level of education/professions Within the senior secondary vocational education (mbo) there is no continuing learning curve for the Skilled mechanic combustion engine level 3. There is however a possibility at level 4 for, for instance, a course Workshop management. Career possibilities are there within the sector-position structures. From the qualification structure the Skilled mechanic combustion engine can within the revision sector and diesel engine sector continue to grow into positions such as (senior) service engineer, (damage) inspector and managerial positions such as team leader, workshop manager and service manager. There are also transfers possible in the direction of sales if certain conditions are met.</p>	<p>International agreements The profession of Skilled mechanic combustion engine 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>Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 90900 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>Average duration of the education/ training leading to the certificate</p>	<p>4 years (6400 study hours) (depending on previous education)</p>
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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 in section 3 and 4 is drawn directly from the qualification file, that is composed by the Centre of Exper-

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tise. The complete qualification file is available 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) for VET: www.nlgrp.nl

SBB has been appointed by the Ministry of Education, Culture and Science as NRP.