

CERTIFICATE SUPPLEMENT (*)

1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Eerste monteur service en onderhoud gasturbines
Kwalificatiedossier: Service- en onderhoudstechniek
In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Skilled mechanic service and maintenance gas turbines
Qualification file: Service and maintenance technology
This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Skilled mechanic service and maintenance gas turbines are:

Core task 1: Inspects equipment, installations, and systems

- 1.1 Prepares inspection of equipment, installations and systems
- 1.2 Skilled mechanic service and maintenance gas turbines
- 1.3 Performs sensory inspection of equipment, installations and systems
- 1.4 Performs measurements and tests on equipment, installations and systems
- 1.5 Makes an initial diagnosis and report results
- 1.6 Rounds off maintenance and modification work

Core task 2: Optimises equipment, installations, and systems corrects malfunctioning.

- 2.1 Rounds off maintenance and modification work
- 2.2 Takes precautionary measures for troubleshooting and optimisation of 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

Core task 3: Locates and analyses malfunctioning which can be complex in gas turbines

- 3.1 Does preparatory work for localisation of malfunctions in gas turbines and associated systems
- 3.2 Localizes and analyzes (cause) of failures in gas turbines and/or connected systems
- 3.3 Adjusts (components of) gas turbines and/or connected systems and fine tunes them
- 3.4 Assists with tests and trial runs of gas turbines and/or connected 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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4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE

A Skilled mechanic service and maintenance gas turbines works for both small and large enterprises which maintain, revise, and repair gas turbine engines for airline businesses, industrial companies and/or energy industries, shipping industries, oil industries, and gas industries. He works for the Ministry of Defence, gas turbine installation companies, gas turbine maintenance companies, gas turbine repair companies, or electricity production companies. The companies usually focus on one of these sectors. The work covers all components of the gas turbine. Depending on the type of company, several types of gas turbines are being worked on. A Skilled mechanic service and maintenance gas turbines performs maintenance on the gas turbines, locates malfunctioning which may be complex, corrects these, and carries out possible repairs and modifications.

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 A Skilled mechanic service and maintenance gas turbines can be transferred to technician service and maintenance toolmaking, technician service and maintenance mechanical installations or managerial positions such as a job leader, technician specialist, and engineer but the latter does take a few years of experience. He could expand his knowledge for professions in the field of aircraft maintenance or a profession such as a Skilled mechanic service and maintenance mechanical installations.</p>	<p>International agreements The profession of Skilled mechanic service and maintenance gas turbines 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): 25305 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, 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.

Average duration of the education/ training

3 years (4800 study hours) (depending on

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leading to the certificate

previous education)

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. 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.