



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Scheepswerktuigkundige waterbouw
Kwalificatiedossier: Maritieme Waterbouw

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Engineer water engineering
Qualification file: Maritime water engineering

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Carries out operational tasks on an operational level on dredging equipment/ships

1.1 Controlling the operation of the ship and care for persons on board at the operational level A-II/1 and/or A-III/1

Core task 2: Carries out operational tasks on a management level on dredging equipment/ships

2.1 Prepares the dredging process

2.2 Controlling the operation of the ship and care for persons on board at the management level A-II/2 and/or A-III/2

Core task 3: Carries out safety tasks on dredging equipment/ships

3.1 Is prepared to deal with emergencies and accidents

3.2 Manages and is in charge of life-saving vessels

3.3 Provides first aid on board

3.4 Organises fire-fighting operations on board

3.5 Recognises and identifies potential threats

3.6 Carries out the security of the dredging equipment/ship

Core task 4: Carries out technical tasks on operational level A-III/1 on dredger equipment/ships

4.1 Marine engineering at the operational level

4.2 Electrical, electronic and control engineering at the operational level

4.3 Maintenance and repair at the operational level

Core task 5: Carries out technical tasks on management level A-III/2 on dredger equipment/ships

5.1 Marine engineering at the management level

5.2 Electrical, electronic and control engineering at the management level

5.3 Maintenance and repair at the management level

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

An Engineer water engineering works in an internationally oriented sector. Water engineering companies carry out dredging work all over the world, both on inland waters and offshore. The Engineer water engineering's primary assignment is to operate and maintain all on-board installations. These installations involve propulsion, dredging production, the pump room and auxiliary equipment. He must ensure that the assigned equipments are in operational condition and therefore contribute to an optimal production process.

The Engineer water engineering has a double task on board. Aside from the responsibility of the dredging

*** 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

production process, he also carries a nautical or technical responsibility. Because of this, the Engineer water engineering is required to possess a navigation licence, as set up by the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW). Navigation licences are issued for the combination length/propulsion of ships and sailing areas.
The Engineer water engineering must also be able to pass a maritime medical examination.

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
Level of the certificate (national or international) Qualification level 4 of the Dutch VET qualification structure Characteristics: non-job related skills such as tactical and strategic capacities. The professional bears his or her own responsibility, which is not only related to practical implementation in terms of monitoring and supervision, but also a more formal, organisational responsibility. The range of tasks also includes drafting new procedures. NLQF-niveau 4 - EQF level 4 - ISCED 3A	Grading scale / Pass requirements 10 excellent 9 very good 8 good 7 very satisfactory 6 pass 5 fail 4 unsatisfactory 3 very unsatisfactory 2 poor 1 very poor
Access to next level of education/professions An Engineer water engineering can develop through higher professional maritime educations.	International agreements In the Netherlands, Engineer water engineering is a regulated profession under the European directive 2005/36/EC, amended by directive 2013/55/EU.
Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25521 The education and training for this qualification is offered as of 01-08-2016.	

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 leading to the certificate	4 years (6400 study hours) (depending on previous education)
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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 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 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.

7. ADDITIONAL INFORMATION

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.