



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Scheepswerktuigkundige waterbouw
Kwalificatiedossier: Maritiem waterbouwer

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

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

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Engineer water engineering are:

Core task 1: Cargo handling and stowage

- 1.1 Is responsible for the loading, transport and unloading of the cargo
- 1.2 Optimises the dredging process
- 1.3 Reports about the dredging process

Core task 2: Controlling the operations of the ship and care for persons on board

- 2.1 Is responsible for the safety and compliance with environmental and legal requirements
- 2.2 Is responsible for the seaworthiness of the boat
- 2.3 Stays and works on board

Core task 3: Marine engineering

- 3.1 Uses tools and apparatus involved in the dredging process
- 3.2 Keeps the machine room watch
- 3.3 Operates main and assistant work vessels

Core task 4: Electrical, electronic and control engineering

- 4.1 Operates and maintains electrical and electronic systems involved in the boat's installations and the dredging installation

Core task 5: Maintenance and repair

- 5.1 Coordinates and carries out maintenance in the floating and dredging technical business

Core task 6: Safety

- 6.1 Identifies and deals with calamities and accidents on board
- 6.2 Manages and is in charge of life-saving vessels during launching and afterwards
- 6.3 Provides medical assistance in case of accidents and medical care for the sick
- 6.4 Organises fire-fighting operations on board
- 6.5 Carries out maritime communication

* 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

The Engineer water engineering works for a contractor's firm in the water construction. These companies focus on performing dredging works, both on inland waters and offshore and/or on performing works on shores and banks in ports or along rivers and canals.

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 level 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 Having completed this course of studies, transfer is possible to higher professional education. The Engineer water engineering can be promoted to a position in a technical department.	International agreements The profession of Engineer water engineering is not regulated in the Netherlands. However the education and training for this profession on qualification level 4 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.
Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 93101 The education and training for this qualification is offered as of August 1, 2009.	

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 (bbi).

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 in section 3 and 4 is drawn directly from the qualification file, that is composed by the Centre of Expertise. The complete qualification file is available at www.kwalificatiesmbo.nl, only in Dutch.

Additional information, including a description of the Dutch national qualifications system, is available at the

7. ADDITIONAL INFORMATION

Netherlands National Reference Point (NRP) for VET: www.nlntp.nl

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