



1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs
Kwalificatie: Klokkenmaker
Kwalificatiedossier: Uurwerktechnicus**

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Certificate Senior Secondary Vocational Education
Qualification: Clockmaker
Qualification file: Clockwork technician**

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Clockmaker are:

Core task 1: Takes on repair assignments

- 1.1 Analyses problems
- 1.2 Sets the clocks or watches correctly
- 1.3 Provides information and advice to the client
- 1.4 Formulates quotation

Core task 2: Repairs clocks and watches

- 2.1 Plans the working duties
- 2.2 Disassembles and assembles clocks and watches
- 2.3 Cleans and replaces parts
- 2.4 Carries out repairs to standard systems of clocks
- 2.5 Carries out repairs to more complex systems of clocks
- 2.6 Inspects functions and oils parts
- 2.7 Makes up the restoration report
- 2.8 Finishes off repair

Core task 3: Provides professional skills for the benefit of their business

- 3.1 Starts up a business
- 3.2 Gives form to the business
- 3.3 Innovates the business
- 3.4 Promotes and profiles the business
- 3.5 Participates in networks
- 3.6 Determines the sales prices and tariffs
- 3.7 Monitors and is responsible for the financial situation
- 3.8 Assesses the investments
- 3.9 Manages the business administration
- 3.10 Buys in parts, materials and means
- 3.11 Carries out policies in the areas of quality, safety, the environment and working conditions

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

* 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

In the Netherlands, the clock technical sector mainly consists of businesses without any or with just a few staff members. Most of the Clockmakers own their own repair workshop, increasingly often in combination with a shop selling clocks. Independent Clockmakers work for private persons or jewellers who contract out repair work.

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 After obtaining his diploma, the Clockmaker can focus on repairing or restoring the more complicated clocks. Doing specialized clock programmes is a possibility (for instance, Wostep). Another possibility is to enter higher vocational education programmes for precision engineering, as some programmes for mechanical engineering offer them.	International agreements The profession of Clockmaker 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): 92922 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 (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 year(s) (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.