



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsopleiding
Kwalificatie: Analist klinische chemie
Kwalificatiedossier: Biomedisch analist
In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Clinical chemist
Qualification file: Biological-medical analyst
This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

The most important tasks of a Clinical chemist are:

- Core task 1: Preparing analyses
- Core task 2: Performing basic analyses
- Core task 3: Assessing measured values and reporting
- Core task 4: Maintaining the work environment and equipment
- Core task 5: Assisting in method development
- Core task 6: Taking blood samples and receiving patient material
- Core task 7: Carrying out specific haematological, immunological and chemical analyses

Other tasks of the Clinical chemist include preparing material and stock control. He plans his own tasks and continues to develop his professional competences. He works precisely and in accordance with instructions but also within time restraints. He communicates adequately to all participants in the work process, and works alongside them.

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

The Clinical chemist is primarily employed in a clinical chemical laboratory at a hospital or other healthcare establishment. He examines blood cells and bodily fluids such as blood and urine. He takes blood samples, types proteins (e.g. blood groups), differentiates blood cells and identifies which (bio)chemical processes in the body are disrupted. According to a wide range of analysis techniques, he investigates precisely which chemical processes have changed in the patient so that the medical specialist can determine the cause of the illness, or whether the patient is recovering or the treatment is effective.

*** 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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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 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</p>	<p>Grading scale / Pass requirements</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10%;">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
10	excellent																				
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5	fail																				
4	unsatisfactory																				
3	very unsatisfactory																				
2	poor																				
1	very poor																				
<p>Access to next level of education/professions The Clinical chemist can advance to more specialist or more coordinating positions. Attending a course of studies in higher professional education will improve the career prospects.</p>	<p>International agreements Clinical chemist is not a regulated profession 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.</p>																				
<p>Legal basis Adult and Vocational Education Act (WEB), registered number of qualification (crebo): 91702 The education and training for this qualification is offered as of August 1, 2005.</p>																					

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

<p>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>	
<p>Average duration of the education/ training leading to the certificate</p>	<p>4 years (6400 study hours) (depending on previous education)</p>
<p>Entry requirements The certificate preparatory vocational secondary education (vmbo) advanced vocational programme, combined programme, or theoretical programme, or a comparable level.</p>	

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, that is composed by the Centre of Expertise. The complete qualification file can be found at <https://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): 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.