



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Verspaningstechnoloog
Kwalificatiedossier: Precisie techniek

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Machine operating technologist
Qualification file: Precision technology

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Processes materials

- 1.1 Does preparatory work for material processing
- 1.2 Makes machine ready for production
- 1.3 Carries out material processing
- 1.4 Measures and checks his own work
- 1.5 Completes material processing
- 1.6 Maintains equipment

Core task 2: Analyses the manufacturability of the product and advises

- 2.1 Consults and gives advice
- 2.2 Draws up a production plan based on the order

Core task 3: Optimises the production process

- 3.1 Maintains and actualises knowledge of machining techniques
- 3.2 Submits improvement proposals regarding the production process
- 3.3 Implements improvements in the production process

Core task 4: Creates and tests CNC-programmes for (24/7) production

- 4.1 Prepares to write CNC-programmes for (24/7) production
- 4.2 Writes CNC-programmes for (24/7) production
- 4.3 Tests CNC-programmes for (24/7) production and archive production data
- 4.4 Performs CNC-processing for (24/7) production

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

The Machine operating technologist is employed at companies that manufacture components among others for mechanical engineering, offshore, Aerospace and defence. They are also employed at companies that manufacture components for the transport and logistics sector (automotive, shipping and aerospace industry), agrofood, hightech, electrical engineering, medical and optical industry. The Machine operating technologist is a specially trained machine operator metal removal employed within the company at a specific mechanical metal removal department in production. He is a trained specialist who can be deployed broadly and who contributes ideas for example regarding the makeability of the products.

*** 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-niveau 4 - EQF level 4 - ISCED 3A</p>	<p>Grading scale / Pass requirements</p> <table style="border: none;"> <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 Within precision engineering, Machine operating technologist is a senior position. It is possible, based on work experience to develop into (operational) manager. There is also an option to transfer to higher professional education in one of the following technical study courses: Mechanical engineering, Technical physics, Electrical engineering or teacher training.</p>	<p>International agreements Machine operating technologist 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 Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25627 The education and training for this qualification is offered as of 01-08-2020.</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

<p>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.</p> <p>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.</p> <p>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</p>
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7. ADDITIONAL INFORMATION

qualifications in the Netherlands. SBB has been appointed in this capacity by the Ministry of Education, Culture and Science.