



1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Technicus elektrotechniek
Kwalificatiedossier: Infratechniek (kader)

In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Technician electrotechnology
Qualification file: Infrastructure technology (middle management)

This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Prepares projects and carries out project management

- 1.1 Surveys the work
- 1.2 Provides operational data for calculation
- 1.3 Sets up a plan of approach or adjusts an existing plan
- 1.4 Regulates and monitors reports and permits of third parties
- 1.5 Starts, coordinates and monitors the implementation
- 1.6 Supervises staff and subcontractors
- 1.7 Perform recalculations and evaluates the implementation

Core task 2: Designs and maintains electrical grids and (decentralised) generation units

- 2.1 Designs or adjusts the electricity distribution network
- 2.2 Makes the electricity distribution network safe for work activities
- 2.3 Configures (components in) electricity distribution networks
- 2.4 Locates, analyses and repairs malfunctions in electricity distribution networks and stations
- 2.5 Makes the electricity distribution network operational
- 2.6 Completes maintenance on the electricity distribution network and delivers it

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

A Technician electro-technology can work at energy companies, companies working on power distribution grids and large industries. He works within the area of electrical infrastructures. The Technician electro technology can work on both new and existing stations for power distribution and assorted distribution grids. This can involve low voltage grids, medium voltage grids, public lighting grids, distribution stations and assorted installations.

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

*** 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>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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5	fail																				
4	unsatisfactory																				
3	very unsatisfactory																				
2	poor																				
1	very poor																				
<p>Access to next level of education/professions A Technician electro-technology can develop to become a project coordinator (no further education required). He can expand his professionalism to become a Technician gas or Technician heating, construction supervisor gas, water or heating (through assembling) or planner. Furthermore, he can expand his expertise from infrastructure technology to mechanical installations, electro-technical installations, refrigeration & air conditioning installations or building completion & construction technology. It is also possible to develop to become a service coordinator/service manager, contract manager or designer/product developer/project manager (through further higher professional education). When a Technician electro-technology chooses to develop through higher professional education, the most obvious choices are educations aimed at technology/physics, such as Technological business administration, Electronic engineering, Data communication, Energy engineering, Civil engineering and Mechanical engineering.</p>	<p>International agreements Technician electrotechnology 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): 25276 The education and training for this qualification is offered as of 01-08-2015.</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 (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.</p>	
<p>Average duration of the education/ training leading to the certificate</p>	<p>3 years (4800 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 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.

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.