



1. TITLE OF THE CERTIFICATE (NL)
<p>Diploma Beroepsonderwijs Kwalificatie: Technicus elektrotechnische industriële systemen en installaties Kwalificatiedossier: Elektrotechnische systemen en installaties</p> <p>In the original language</p>

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)
<p>Certificate Senior Secondary Vocational Education Qualification: Technician electrotechnical industrial installations and systems Qualification file: Electrotechnical installations</p> <p>This translation has no legal status</p>

3. PROFILE OF SKILLS AND COMPETENCES
<p>Core task 1: Installing electrical engineering systems</p> <ul style="list-style-type: none"> 1.1 Preparing electrical engineering installation work 1.2 Dismantling and repairing electrical engineering components, cables/wiring 1.3 Determining the position of components along the route of cables/wiring 1.4 Installing cables/wiring 1.5 Placing and assembling components in electrical engineering systems and installations 1.6 Adjusting components in electrical engineering systems and installations 1.7 Managing/supervising during operational tasks and sharing knowledge 1.8 Completing electrical engineering installation work 1.9 Communicating and consulting with stakeholders <p>Core task 2: Maintaining electrical engineering industrial systems and installations and analysing faults</p> <ul style="list-style-type: none"> 2.1 Installing and maintaining electrical engineering industrial systems and installations 2.2 Analysing and correcting faults in electrical engineering industrial systems and installations 2.3 Testing completed tasks and commissioning industrial systems and installations

4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE
<p>The Technician electrotechnical industrial installations and systems is employed in the engineering sector at an installation company that installs, maintains and alters both simple and complex electrical engineering systems and installations. These installations and/or systems include general electrical engineering installations, building management systems, data networks, telecommunication installations, electrical and instrumentation systems, operating systems, lightning and overvoltage protection systems, (public) lighting, advertising lighting systems, security systems, traffic signalling systems, access control systems and burglar alarm/security systems, complete solar power systems and complete (passenger and goods) lift systems.</p>

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>

*** 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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3	very unsatisfactory																				
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<p>Access to next level of education/professions The Technician electrotechnical industrial installations and systems can transfer to higher professional education Electrical engineering or related technical study courses at higher professional education level, also including abbreviated higher professional education courses or an Associate Degree study course.</p>	<p>International agreements Technician electrotechnical industrial installations and systems 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): 25738 The education and training for this qualification is offered as of 01-08-2022.</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>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

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