



## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs****Kwalificatie: Technicus elektrotechnische industriële installaties en systemen****Kwalificatiedossier: Elektrotechnische systemen en installaties**

In the original language

## 2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

**Certificate Senior Secondary Vocational Education****Qualification: Technician electro technical industrial installations and systems****Qualification file: Electro technical systems and installations**

This translation has no legal status

## 3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Installs electro technical installations

- 1.1 Does preparatory work for electro technical installation activities
- 1.2 Disassembles and repairs electro technical components, cables/pipes
- 1.3 Determines the position of components and route of cables/pipes
- 1.4 Lays cables/pipes
- 1.5 Places and assembles components in electro technical installations and systems
- 1.6 Adjusts components in electro technical installations and systems
- 1.7 Coaches, instructs and shares knowledge with less experienced colleagues
- 1.8 Completes electro technical installation work

Core task 2: Maintains electro technical industrial installations and systems, and analyses malfunctions

- 2.1 Installs, maintains, modifies and/or advises on electro technical industrial installations and systems
- 2.2 Analyses and resolves issues with electro technical industrial installations and systems
- 2.3 Carries out extensive testing of work carried out and starts up industrial installations and systems

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

Within the technology sector, a Technician electro technical industrial installations and systems (TEII) can work for a company that places, maintains and adjusts both simple and complex electro technical systems. This involves installations such as general control and allocation systems, electro technical installations, facility management systems, data networks, telecommunication installations, electro orchestration systems, lightning and overpower prevention systems, (public) lighting, illuminated advertising, security systems and traffic signalling. The TEII works at various locations such as houses, residential buildings, stores, industrial areas and utility buildings (such as schools, offices and hospitals).

## 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><b>Level of the certificate (national or international)</b>  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><b>Grading scale / Pass requirements</b></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><b>Access to next level of education/professions</b>  A TEII can develop through the higher professional education Electro technology or other higher professional technology-related educations, including shortened programs at this level or associate degrees.</p>	<p><b>International agreements</b>  Technician electro technical 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><b>Legal basis</b>  Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25262  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 (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><b>Average duration of the education/ training leading to the certificate</b></p>	<p><b>3 years (4800 study hours) (depending on previous education)</b></p>
<p><b>Entry requirements</b>  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 <a href="http://kwalificaties.s-bb.nl">kwalificaties.s-bb.nl</a>, 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): <a href="http://www.s-bb.nl">www.s-bb.nl</a>. 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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