



## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs**  
**Kwalificatie: Technicus sterkstroominstallaties (TSI)**

In the original language

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

**Certificate Senior Secondary Vocational Education**  
**Qualification: Technician heavy current installations**

This translation has no legal status

## 3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Technician heavy current installations are:

The Technician heavy current installations has acquired an understanding, insight, skills and the routine experience necessary for the independent design, calculation, acceptance, installation and maintenance of electro technical engineering installations in buildings and constructions, and the related fields, including:

- The operation and application of valid safety regulations, stipulations, requirements and instructions for (lowvoltage) electro technical installations;
- The drawing, design and calculation of electro technical engineering installations;
- The drawing up of job/task-setting budgets and plans for the work to be implemented;
- Subject to his own responsibility, having work installed and implemented on electro technical engineering installations;
- Commissioning and handing over of completed installations, and systematic fault tracing and correction;
- The inputting and testing of software for freely programmable control devices, and the alteration and testing of these software programs;
- Knowledge of responsibilities, authorities, communication structures and communication forms in the organisation of the company.

Electrical engineering installations should be taken to include: electrical engineering light, signal, power and control installations.

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

Technician heavy current installations

## 5. OFFICIAL BASIS OF THE CERTIFICATE

<b>Name and status of the body awarding the certificate</b> The certificate issued on completion of the programme is signed by the examination board at the school where the pupil attended the programme.	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Ministry of Education, Culture and Science
<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	<b>Grading scale / Pass requirements</b> 10 excellent 9 very good 8 good 7 very satisfactory

## \* 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	
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	6 pass 5 fail 4 unsatisfactory 3 very unsatisfactory 2 poor 1 very poor
<b>Access to next level of education/professions</b> With a diploma at qualification level 4, transfer is possible to higher professional education.	<b>International agreements</b> The profession of Technician heavy current installations is not regulated 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.
<b>Legal basis</b> Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 10238	

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE	
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.	
<b>Average duration of the education/ training leading to the certificate</b>	<b>4 year(s) (6400 study hours) (depending on previous education)</b>
<b>Entry requirements</b> The certificate preparatory vocational secondary education (vmbo) advanced vocational programme, combined programme, or theoretical programme, or a comparable level.	

7. ADDITIONAL INFORMATION
Additional information, including a description of the Dutch national qualifications system, is available at the Netherlands National Reference Point (NRP) for VET: <a href="http://www.nlgrp.nl">www.nlgrp.nl</a> SBB has been appointed by the Ministry of Education, Culture and Science as NRP.