

# CERTIFICATE SUPPLEMENT (\*)

## 1. TITLE OF THE CERTIFICATE (NL)

**Diploma Beroepsonderwijs**  
**Kwalificatie: Eerste monteur elektrotechnische installaties woning en utiliteit**  
**Kwalificatiedossier: Elektrotechnische installaties**  
In the original language

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

**Certificate Senior Secondary Vocational Education**  
**Qualification: Skilled mechanic electro technical installations houses and utility**  
**Qualification file: Electro technical installations**  
This translation has no legal status

## 3. PROFILE OF SKILLS AND COMPETENCES

The most important duties of a Skilled mechanic electro technical installations houses and utility are:

Core task 1: Installs electro technical installations

- 1.1 Prepares electro technical installation work
- 1.2 Disassembles and repairs electro technical components and pipes
- 1.3 Checks and assembles components in electro technical installations and systems
- 1.4 Constructs the wiring for electro technical installations and systems
- 1.5 Rounds off electro technical installation work

Core task 2: Offers guidance and carries out electro technical installation work in houses & utility

- 2.1 Compiles, monitors and tests (complex) (sub) products for residential and non-residential buildings
- 2.2 Determines the position of components and route of components, cables and pipes in residential and non-residential buildings, reads drawings and revises data
- 2.3 Switches on and tests electro technical industrial systems in residential and non-residential buildings
- 2.4 Supervises and coaches mechanics and monitors the planning

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

Within the technology sector, a Skilled mechanic electro technical installations houses and utility (SMEHU) can work for a company in the which manufactures, places, repairs, renovates, disassembles and adjusts 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 SMEHU can be deployed in one of the following subareas: industry, control technology, houses & utility, lightning and overpower prevention systems, (public) lighting, illuminated advertising, security systems and traffic signalling. He can work for industrial and non-industrial companies and private clients.

The SMEHU works at various locations, such as houses, residential buildings, stores, industrial areas and utility

### \* 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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<b>4. RANGE OF OCCUPATIONS ACCESSIBLE TO THE HOLDER OF THE CERTIFICATE</b>
buildings (such as schools, offices and hospitals).

<b>5. OFFICIAL BASIS OF THE CERTIFICATE</b>																					
<p><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.</p>	<p><b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Ministry of Education, Culture and Science</p>																				
<p><b>Level of the certificate (national or international)</b> Qualification level 3 of the Dutch VET qualification structure Characteristics: implementation of more than just the own block of tasks. The professional is able to account for his or her actions towards colleagues, and monitors and supervises the work of others. The range of tasks also includes drafting work preparation procedures. NLQF level 3 - EQF level 3 - ISCED 3C</p>	<p><b>Grading scale / Pass requirements</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 10px;">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 SMEHU can develop to VET-level 4 positions in Electro technical installations and systems, such as Technician electro technical industrial installations and systems, or Technician electro technical installations houses and utility.</p>	<p><b>International agreements</b> The profession of Skilled mechanic electro technical installations houses and utility is not regulated in the Netherlands. However the education and training for this profession on qualification level 3 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): 35332 The education and training for this qualification is offered as of August 1, 2015.</p>																					

<b>6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE</b>	
<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

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 <http://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](http://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.