CERTIFICATE SUPPLEMENT(*)

the Netherlands

1. TITLE OF THE CERTIFICATE (NL)

Diploma Beroepsonderwijs
Kwalificatie: Eerste monteur service en onderhoud elektrotechniek en instrumentatie
Kwalificatiedossier: Service- en onderhoudstechniek
In the original language

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Certificate Senior Secondary Vocational Education
Qualification: Skilled mechanic service and maintenance electrotechnology and instrumentation
Qualification file: Service and maintenance technology
This translation has no legal status

3. PROFILE OF SKILLS AND COMPETENCES

Core task 1: Inspects equipment, installations and systems
1.1 Prepares for the inspection of equipment, installations and systems
1.2 Takes precautions for inspection working duties
1.3 Performs sensory inspection on equipment, installations and systems
1.4 Performs measurements and tests on equipment, installations and systems
1.5 Makes an initial diagnosis and reports results
1.6 Rounds off inspection work on equipment, installations and systems

Core task 2: Optimises equipment, installations and systems and corrects malfunctions
2.1 Prepares for resolving malfunctions and optimising equipment, installations and system
2.2 Takes precautionary measures for resolving malfunctions and optimising equipment, installations and systems
2.3 Disassembles, modifies, repairs and assembles components of equipment, installations and systems
2.4 Checks and tests work performed on equipment, installations and systems
2.5 Delivers equipment, installations and systems
2.6 Rounds off maintenance and modification work

Core task 3: Locates (single) malfunctions in the electro-, measure- and regulation technical parts of equipment, installations and systems
3.1 Prepares for locating malfunctions in the electro-, measure- and regulation technical parts of equipment, installations and systems
3.2 Locates and analyses (single) malfunctions in the electro-, measure- and regulation technical parts of equipment, installations and systems
3.3 Performs simple adjustment and regulation work on measure- and regulation technical parts of systems
3.4 Supervises less experienced colleagues

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

The Skilled mechanic service and maintenance electro-technology and instrumentation can work in the office, service and maintenance department of a company or in the field service of a company that carries out installation, service and maintenance work on location on behalf of third parties. He works on the measure- and regulation technical parts and to a limited extent, on the electro-technical parts of equipment, installations and systems for the process industry, food industry, manufacturing industry, water treatment installations, general electrical technical installations, data transport, bus systems, etc. He carries out maintenance on the electro-,

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measure and regulation technical parts of equipment, installations and systems, detects and resolves (single, occurring in one place) malfunctions and carries out repairs and modifications.

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
Level of the certificate (national or international) 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-niveau 3 - EQF level 3 - ISCED 3C	**Grading scale / Pass requirements** 10 excellent 9 very good 8 good 7 very satisfactory 6 pass 5 fail 4 unsatisfactory 3 very unsatisfactory 2 poor 1 very poor
Access to next level of education/professions The Skilled mechanic service and maintenance electro-technology and instrumentation can be transferred to Technician service and maintenance electro-technology and instrumentation or Technician data technology, Electro-technology (infra technology), managerial position inside a department dealing with service and maintenance of one's own company assets (not a training) or to a project coordinator. He can expand his knowledge in order to become a Skilled mechanic service and maintenance mechanic installations, Skilled mechanic service and maintenance mechanical engineering or be transferred to professions in refrigeration technology.	**International agreements** Skilled mechanic service and maintenance electrotechnology and instrumentation is not a regulated profession 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.
Legal basis Act on Vocational Education and Training (WEB), registered number of qualification (crebo): 25304 The education and training for this qualification is offered as of 01-08-2015.	

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.	
Average duration of the education/ training leading to the certificate	**3 years (4800 study hours) (depending on previous education)**
Entry requirements The certificate preparatory vocational secondary education (vmbo) advanced vocational programme, combined programme, or theoretical programme, or a comparable level.	

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.