

EUROPASS CERTIFICATE-SUPPLEMENT (*)

1. TITLE OF THE CERTIFICATE (HU)

52 5422 01 ELEKTROTECHNIKAI TECHNIKUS

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

ELECTRICAL ENGINEERING TECHNICIAN (THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

A typical holder of the certificate is able to:

- perform professional tasks relevant to the field of electrical engineering;
- work as electrician, electrical engineer, engine winder, mechanic of household equipment, mechanic of elevators etc., after having obtaines the necessary professional experience;
- perform tasks for co-designers, editors, investment and foremen;
- perform tasks for electricians, energy experts and foremen with additional professional examinations and appropriate local knowledge;
- prepare and apply technical drawings;
- interpret electrical drawings, based on theoretical operation drawings, prepare and use mounting drawings,
- prepare measurement records;
- measure electrical basic quantities in a one- and three-phase voltage system;
- perform measurements related to review of electrical networks and equipment for standardisation and protection against electric shocks;
- review and check management technology and protection devices related to electrical networks and equipment;
- perform the measurement of the most important operative characteristics of transformators, asynchronous and synchronous machines and DC machines;
- apply electrical wiring technologies and circuits of communal buildings;
- install main consumer equipment;
- perform connection to the electricity provider network, establish measurement points;
- apply industrial electrical engineering technologies;
- select mounting technologies and devices taking into account the relevant standards;
- perform tasks reated to mounting, bundling and connection on low-voltage overhead and cable networks;
- know the structures, connections and main parameters of one- and three-phase transformators;
- start engines, change rev and rotation direction, brake;
- operate DC drives in a regulated manner;
- operate auxiliary electrical equipment for synchronous generators;
- know the structure of electricity systems and electricity distribution systems;
- build and operate heavy current connection devices;
- recognise possibilities for network voltage regulation, perofrm regulatory tasks;
- calculate the lockdown power and performance of simple networks;
- know the methods for lockdown limitation;
- measure the size of low-voltage supply, distribution and circuit line;
- know the protection of electrical networks, automatics for operation and breakdowns;
- know the protection of main electrical equipment (transformator and generator), automatics for operation and breakdowns;
- know the structure and operation of, install and operate industrial and household electical heating and cooling equipment;
- plan, build electromechanic control devices, check their operation;
- build, install and operate engine controls (engine protector, starter, rotation direction switch, rev switch)
- install and operate computer, microprocessor and PLC-driven industrial processes;
- make heavy current connection and control drawings;
- if personal aptitude allows for it, manage independent entrepreneurships and partnerships, perform tasks related to technical administration and commerce.

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

3118 Electrical (power current) engineering technician

(*) Explanatory notes:

This document is designed to provide additional information about the specified certificate and does not serve as a legal certificate of vocational qualification. The format of the description is based on the following documents:

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 on transparency is available at: http://europass.cedefop.europa.eu/

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5. OFFICIAL BASIS OF THE CERTIFICATE		
Name and status of the institute issuing the certificate	Name and status of the national/regional authority providing accreditation/recognition of the certificate	
	In the case of vocational qualifications belonging to the comp of the Ministry of Education (ME), a vocational qualification-n independent professional committee commissioned by the ME	etence related
Level of the certificate (national or international)	Grading scale / Pass requirements	
 Level of vocational qualification according to the National Qualification Register: 52 Intermediate vocational qualification entitling the holder to fill positions requiring physical or intellectual work, which is based on the input competence determined in the vocational and examination requirements, on preliminary vocational qualification or on the baccalaureate. ISCED97 code: 4CV 	Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail Vocational qualification examination after the completion of vocational training Parts of the examination: - Vocational theory - Vocational practice A successful vocational qualification examination requires a pass grade both in vocational theory and practice.	
Certificate number:	Description of vocational theoretical and practical subjects and their grades according to the five-grade scale	
РТ К	1. Grades of vocational theoretical examination subjects	
Serial number:	Topics/subjects of written examination	
123456	Electrical Engineering 5	
Certificate issue date:	Power Currents 5	
2023.09.14	Grade of Written Examination 5	
	Topics/subjects of oral examination	
	Electrical Engineering 5	
	Power Currents 5	
	Grade of vocational Theory 5	
	2. Assessment of vocational practical preparedness	
	Workshop Practice 5	
	Electrical Measurements 55	
	Grade of Vocational Practice 5	
Access to next level of education/training Advancement to higher education	International agreements	
Other information concerning the vocational training process		

Legal basis

Act LXXVI of 1993 on vocational training,

Decree 27/2001 (VII. 27.) OM of the Minister of Education on the amendment of Decree 7/1993 (XII. 30.) MüM of the Minister of Labour on the National Qualifications Register,

Decree 26/2001 (VII. 27.) OM of the Minister of Education on the general rules and rules of procedure of vocational examinations, Decree no. 50/1999. (IX.10.) GM of the Minister of Economic Affairs on the amendment of Decree no. 5/1997. (III.5.) IKIM of the Minister of Industry, Trade and Tourism on qualifications required for performing specific industrial, commercial and tourism related activities, Decree 20/1996. (III.28.) of the Minister of Industry and Trade (IKM) on vocational and examination requirements of Electrotechnical technician,

Central programme approved by the Minister of Labour (MüM) under approval number 4148/97. III.23.

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

ů,		(hours/weeks/months/years)
School-/training centre-based	Theory: 70 $\%$ Practice: 30 $\%$	
Workplace-based		
Accredited prior learning		
Total duration of the education/training leading to the certificate		2 years
Entry requirements: - Secondary school leaving examination Further information: MANDATORY VOCATIONAL THEOR Occupational safety and environmental p Basic studies in economics Study of materials Technical Drawing Electrical Engineering Electronics Applied Computer Technology 1	ETICAL SUBJECTS rotection 100 h 100 h 100 h 100 h 100 h 100 h 100 h 100 h	ours iours iours iours iours iours iours
Mathematics for Technical Purposes 100 H		nours
Knowledge of Related Mechanical Engineering Issues 100 h		nours
Quality Assurance 100 h		lours
Automation 100 F		lours
Electrical machines	100 h	lours
Filled in by the exam organiser.		
MANDATORY VOCATIONAL PRACT Basic Practical Training Practice in Electronics Workshop Practice Technical Measurements	CAL SUBJECTS 100 h 100 h 100 h 100 h	iours iours iours

Further information (including the description of the national grading method):

The basis of the grading system is a list of vocational and examination requirements compiled in accordance with uniform criteria and structure, issued in the form of legal regulation that includes the following:

- identification number and description of the vocational qualification as specified in OKJ and the relevant FEOR number,
- school and vocational prequalification required for the start of the training, aptitude and vocational competence requirements and prescribed practice,
- the most typical occupation or activity accessible to the holder of the vocational qualification certificate, the short job description, and the list of related vocational qualifications,
- the duration of the training required for the vocational qualification; maximum number of hours; the ratio of theoretical and practical training; the number of vocational training classes in the vocational training school; the duration of initial training period; the possibility of organising a grade examination assessing the efficiency of practical training,
- occupational requirements of vocational qualification,
- requirements pertaining to vocational examination.

The vocational and examination requirements will be classified by the occupational group committees of the National Qualification Register (OKJ) and by the National Council for Vocational Training, and subsequently they will be issued in the form of legal regulations.

Vocational and examination requirements are available at: http://www.nive.hu This certificate supplement was prepared on the basis of the instruction for filling in the Certificate Supplement published on the homepages of the National Reference Point and the National Europass Centre.

National Reference Point - NSZFH - http://nrk.nive.hu

Head of Examination Organiser: Issue date: 2023.09.14

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