



1. TITLE OF THE CERTIFICATE (HU)

55 525 03 Alternatív gépjárműhajtási technikus

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

Technician for alternatively powered vehicles
(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

A typical holder of the certificate is able to:

- Establish communication links with the controlled systems of the vehicle;
- Apply and use communication devices (on-board diagnostics);
- Initiate and perform software-uploads and software updates;
- perform safety operations of high voltage elements of hybrid and electronically powered vehicles in a state free of tension;
- prepare alternatively powered vehicles for official examinations, perform the check of their mechanic and mechatronic systems;
- define necessary work operations based on the work instruction;
- diagnose, maintain and repair the power train elements of alternatively powered vehicles in a tension-free state, ensure compliance with (comply with and cause to comply with) conditions for safe work;
- perform the specific examination of low voltage system elements (signalling and intervention equipment), replace faulty units;
- connect the energy storage system to a network, charge it, and if necessary install or de-install it in a tension-free state;
- perform the examination of electromotors, generator motors, and their energy storage and charging systems based on the service and work instructions, repair them with the replacement of pieces or cause to repair them, and install them;
- diagnose alternatively fuelled vehicles;
- measure parameters of high voltage networks, in the case of results differing from the provisions, search for the default and take measures;
- perform administrative tasks related to manufacturing, repair, and service in accordance with the provisions;
- establish, comply with and apply related rules on labour safety, environmental protection and fire protection.

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

7331 Vehicle and motorcycle maintainer and mechanic
7341 Technician and mechanic of electric machines and devices
8211 Mechanical machine assembler

(*) 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 Ministry of National Development | | | | | | | | | | | | | | | | | | | | | |
| Level of the certificate (national or international) Level of vocational qualification according to the National Qualification Register: 55 advanced vocational qualification add-ons, which are based on vocational qualifications requiring the completion of the secondary school leaving exam and may be obtained primarily in formal education ISCED2011 code: 4 NQF level: 4 EQF level: 4 | | Grading scale / Pass requirements Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail | | | | | | | | | | | | | | | | | | | | | |
| Certificate number: PT K Serial number: 123456 Certificate issue date: 2023.10.02 | | Results achieved at the examination and their proportion expressed in percentage in the complex mark <table border="1"> <tbody> <tr> <td>Central written examination</td> <td>Basics of knowledge for technicians engaged in the repair of alternatively powered vehicles</td> <td>5</td> <td>30.00</td> </tr> <tr> <td>Oral examination</td> <td>Alternative vehicle powers</td> <td>5</td> <td>20.00</td> </tr> <tr> <td>Practical examination</td> <td>Preparation for official examinations</td> <td>5</td> <td>20.00</td> </tr> <tr> <td>Practical examination</td> <td>Examination and repair of alternatively powered vehicles</td> <td>5</td> <td>30.00</td> </tr> <tr> <td colspan="2">Result achieved at the complex vocational examination, expressed in grades.</td> <td>5</td> <td></td> </tr> </tbody> </table> | | Central written examination | Basics of knowledge for technicians engaged in the repair of alternatively powered vehicles | 5 | 30.00 | Oral examination | Alternative vehicle powers | 5 | 20.00 | Practical examination | Preparation for official examinations | 5 | 20.00 | Practical examination | Examination and repair of alternatively powered vehicles | 5 | 30.00 | Result achieved at the complex vocational examination, expressed in grades. | | 5 | |
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| Practical examination | Examination and repair of alternatively powered vehicles | 5 | 30.00 | | | | | | | | | | | | | | | | | | | | |
| Result achieved at the complex vocational examination, expressed in grades. | | 5 | | | | | | | | | | | | | | | | | | | | | |
| Access to next level of education/training Advancement to higher education | | International agreements | | | | | | | | | | | | | | | | | | | | | |
| Other information concerning the vocational training process | | | | | | | | | | | | | | | | | | | | | | | |
| Legal basis Act CLXXXVII of 2011 on Vocational Training Decree 35/2016 (VIII. 31.) NFM of the Minister of National Development on the professional and examination criteria of vocational qualifications falling within the competence of the Minister of National Development. | | | | | | | | | | | | | | | | | | | | | | | |

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

| Description of vocational education and training received | Percentage of total programme % | Duration (hours/weeks/months/years) |
|---|---------------------------------|-------------------------------------|
| School-/training centre-based | Theory: 50 % Practice: 50 % | |
| Workplace-based | | |
| Accredited prior learning | | |
| Total duration of the education/training leading to the certificate | | 1 year |

Entry requirements:

- 54 525 01 Automotive electronic technician
- 54 525 02 Vehicle mechanic qualification
- Requirements for medical fitness shall be met

Vocational requirement modules:

11741-16 Introduction to high voltage networks
 11742-16 Technologies of alternatively powered vehicles
 11743-16 Maintenance of alternatively powered vehicles
 10424-12 Management of vehicle maintenance

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: 2023.10.02

SEAL