

**1. TITLE OF THE CERTIFICATE (HU)**

32 5252 01 ATOMERŐMŰVI GÉPÉSZ (KÜLSŐ TECHNOLÓGIAI (KTO) GÁZÜZEMI GÉPÉSZ)

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)NUCLEAR POWER PLANT OPERATOR (AUXILIARY SYSTEMS GAS TREATING PLANT OPERATOR)
(THIS TRANSLATION HAS NO LEGAL STATUS)**3. PROFILE OF SKILLS AND COMPETENCES****A typical holder of the certificate is able to:**

- A typical holder of the certificate is able to: - operate different gas generating equipment (hydrogen, nitrogen, compressed air) required for the operation of nuclear power plant units; - prepare and perform acceptance of equipment and process systems for service; - supervise and monitor normal operation; - respond to emergency situations; - take part in performing functional tests of equipment; - make preparations for maintenance operations; - to take in: = different implementation methods of operation monitoring, = the implementation of various states of operation and switching positions, = to recognise the most frequent incidents, = possible actions of incident response, = preparatory works required for maintenance, = the preparation of post-maintenance functional tests of equipment and apply required standards for the local performance thereof, = to know basic rules of equipment startup and shutdown, = the management and on-spot tending of equipment and process systems he/she is in charge of, = the performance of local adjustments and switching operations, = to suitably apply methods and devices required for operation monitoring, = to recognise incidents presenting a possible threat to safety, = to adhere to emergency response procedures and standards, = to prepare documentation pertaining to the work site,

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

8223 Nuclear power plant primary circuit operator

(*) 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

<p>Name and status of the institute issuing the certificate</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>In the case of vocational qualifications belonging to the competence of the Ministry of Education (ME), a vocational qualification-related independent professional committee commissioned by the ME</p>																								
<p>Level of the certificate (national or international)</p> <p>Level of vocational qualification according to the National Qualification Register:</p> <p>ISCED97 code: 3CV</p>	<p>Grading scale / Pass requirements</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Five -grade:</td> <td style="width: 10%; text-align: center;">5</td> <td style="width: 75%;">excellent</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td>good</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td>satisfactory</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td>pass</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td>fail</td> </tr> </table> <p>Vocational qualification examination after the completion of vocational training</p> <p>Parts of the examination: - Vocational theory - Vocational practice</p> <p>A successful vocational qualification examination requires a pass grade both in vocational theory and practice.</p>	Five -grade:	5	excellent		4	good		3	satisfactory		2	pass		1	fail									
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<p>Certificate number:</p> <p>PT K</p> <p>Serial number:</p> <p>123456</p> <p>Certificate issue date:</p> <p>2015.01.22</p>	<p>Description of vocational theoretical and practical subjects and their grades according to the five-grade scale</p> <p>1. Grades of vocational theoretical examination subjects</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 2px;">Topics/subjects of written examination</td> </tr> <tr> <td style="width: 80%; padding: 2px;">Complex (Heat Technology, Hydrodynamics, Aero-Hydrodynamic Machines: Pumps, Ventilators, Nuclear Power Plant Electrical Equipment, Measurement and Control Technology, Water Chemistry, Industrial Safety, Fire Protection, Methods of Hydrogen Generation, Working Principle, Construction and Design of High Pressure Compressors, Methods of Nitrogen Generation)</td> <td style="width: 20%; text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Grade of Written Examination</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Topics/subjects of oral examination</td> </tr> <tr> <td style="padding: 2px;">Complex (Nuclear Physics, Mechanical Equipment and Systems in Nuclear Power Plants, Primary Circuit, Secondary Circuit, the Fundamentals of Radiation Protection, Reactor Physics, Equipment of Hydrogen Generation Station and Standards of the Operation Thereof, Equipment of High Pressure Compressor Station and Standards of the Operation Thereof, Equipment of Nitrogen Generation Station and Standards of the Operation Thereof, I&C and Electrical Equipment of Gas Treating Plants)</td> <td style="text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Grade of Vocational Theory</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;">5</td> </tr> </table> <p>2. Assessment of vocational practical preparedness</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 2px;">Subjects of practical examination</td> </tr> <tr> <td style="width: 80%; padding: 2px;">Thematically Organised on-the-Job Training (1 Month of Training at a Hydrogen Generation Plant, 1 Month of Training in a Nitrogen Generation Plant, 1 Month of Training at a Compressor Station)</td> <td style="width: 20%; text-align: center; padding: 2px;">5</td> </tr> <tr> <td colspan="2" style="padding: 2px;">Grade of Vocational Practice</td> </tr> <tr> <td colspan="2" style="text-align: center; padding: 2px;">5</td> </tr> </table>	Topics/subjects of written examination		Complex (Heat Technology, Hydrodynamics, Aero-Hydrodynamic Machines: Pumps, Ventilators, Nuclear Power Plant Electrical Equipment, Measurement and Control Technology, Water Chemistry, Industrial Safety, Fire Protection, Methods of Hydrogen Generation, Working Principle, Construction and Design of High Pressure Compressors, Methods of Nitrogen Generation)	5	Grade of Written Examination		5		Topics/subjects of oral examination		Complex (Nuclear Physics, Mechanical Equipment and Systems in Nuclear Power Plants, Primary Circuit, Secondary Circuit, the Fundamentals of Radiation Protection, Reactor Physics, Equipment of Hydrogen Generation Station and Standards of the Operation Thereof, Equipment of High Pressure Compressor Station and Standards of the Operation Thereof, Equipment of Nitrogen Generation Station and Standards of the Operation Thereof, I&C and Electrical Equipment of Gas Treating Plants)	5	Grade of Vocational Theory		5		Subjects of practical examination		Thematically Organised on-the-Job Training (1 Month of Training at a Hydrogen Generation Plant, 1 Month of Training in a Nitrogen Generation Plant, 1 Month of Training at a Compressor Station)	5	Grade of Vocational Practice		5	
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<p>Access to next level of education/training</p> <p>To secondary education</p>	<p>International agreements</p>																								
<p>Other information concerning the vocational training process</p>																									

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 Qualification Register,
Decree no. 26/2001. (VI.27.) OM of the Minister of Education on the general rules and rules of procedure of vocational examinations,
Decree 18/1995. (VI.6.) of the Minister of Industry and Trade (IKM) on vocational and examination requirements of nuclear power plant operator (decontamination equipment operator),
Decree 50/1999. (IX.10.) of the Minister of Economic Affairs (GM) of the Minister of Industry, Trade and Tourism (IKIM) and Minister of Cultural and Educational Affairs (MKM) on the amendment of Decree 5/1997. (III.5.) of the Minister of Industry, Trade and Tourism (IKIM) on qualifications required for performing specific industrial, commercial and tourism related activities.

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: 80 % Practice: 20 %	
Workplace-based		
Accredited prior learning		
Total duration of the education/training leading to the certificate		300 hours

Entry requirements:

- vocational qualification;
- having turned 18 years of age;
- health aptitude for work involving nuclear risk;
- successful final exam completing the course entitled 'Non-licensed Operator Skills for NPP Pressure Vessels'

Further information:

MANDATORY VOCATIONAL THEORETICAL SUBJECTS

General Course on Nuclear Power Plants	100 hours
Non-Licensed Water Intake Operator Skills	100 hours
Non-Licensed Operator Skills for NPP Pressure Vessels	100 hours

MANDATORY VOCATIONAL PRACTICAL SUBJECTS

Training as a Primary Circuit Field Operator for a Minimum Period of 3 Months	100 hours
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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: 2015.01.22

SEAL