



1. TITLE OF THE CERTIFICATE (HU)

53 5252 01 ATOMERŐMŰVI OPERÁTOR (REAKTOROPERÁTOR)

2. TRANSLATED TITLE OF THE CERTIFICATE (EN)

NUCLEAR POWER PLANT OPERATOR (REACTOR OPERATOR)
(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

A typical holder of the certificate is able to:

- perform activities specified in maintenance schedules as per specified procedures;
- use single-purpose tools and devices for maintenance;
- report and correct problems experienced during maintenance;
- take part in the performance of functional testing of equipment;
- cooperate with the operations personnel in order to ensure appropriate maintenance conditions;
- to take part in:
 - = posses knowledge on the function and role of single pieces of equipment and process systems with a view to the implementation of safe operation;
 - = implement operation management from the unit control room and implement various operational states;
 - = identify of the most frequent incidents;
 - = immediately identify incidents presenting a threat to safety;
 - = recognise incidents of control and protective systems;
 - = execute preparatory activities required for the performance of maintenance and refuelling activities;
 - = posses knowledge on the elements of work orders operated maintenance systems;
 - = perform functional tests of equipment;
 - = perform on-power periodic tests of protective systems;
 - = manage and coordinate the work of senior equipment operators and non-licensed operators working at the site;
 - = use of the documentation available in the unit control room;
 - = perform emergency actions;
 - = carefully implement operation monitoring and use the information provided by the processing computer;

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

8223 Reactor 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: 4CV</p>	<p>Grading scale / Pass requirements</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Five -grade:</td> <td style="width: 5%; text-align: center;">5</td> <td style="width: 80%;">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>2023.09.14</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="padding: 2px;">Complex (Further Issues in Thermodynamics and Hydrodynamics, Reactor Construction and Core Refuelling, Radiation Monitoring in Nuclear Power Plants, Electrical Issues for Reactor Operators, Unit Level Power Control, Npp Processing Computers and the Functions Thereof, Interactions Between the Primary and Secondary Circuits, Technical Issues of the Safety of Nuclear Power Plant Units)</td> <td style="text-align: center; width: 50px; 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 (Operation of Reactor Units, Primary Circuit Process Controls and Protections, Applied Reactor Theory)</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="padding: 2px;">Measurements and Tasks Using the Software Simulator</td> <td style="text-align: center; width: 50px; 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 (Further Issues in Thermodynamics and Hydrodynamics, Reactor Construction and Core Refuelling, Radiation Monitoring in Nuclear Power Plants, Electrical Issues for Reactor Operators, Unit Level Power Control, Npp Processing Computers and the Functions Thereof, Interactions Between the Primary and Secondary Circuits, Technical Issues of the Safety of Nuclear Power Plant Units)	5	Grade of Written Examination		5		Topics/subjects of oral examination		Complex (Operation of Reactor Units, Primary Circuit Process Controls and Protections, Applied Reactor Theory)	5	Grade of Vocational Theory		5		Subjects of practical examination		Measurements and Tasks Using the Software Simulator	5	Grade of Vocational Practice		5	
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<p>Other information concerning the vocational training process</p>																									
<p>Legal basis</p> <p>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 18/1995. (VI.6.) of the Minister of Industry and Trade (IKM) on vocational and examination requirements of nuclear power plant operator.</p>																									

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: 60 % Practice: 40 %	
Workplace-based		
Accredited prior learning		
Total duration of the education/training leading to the certificate		500 hours

Entry requirements:

- having turned 18 years of age;
- minimum secondary education level technical qualifications or specialised diploma in production engineering / mechanical engineering
- psychological and health aptitude for the job of reactor operator;
- holding a vocational qualification of non-licensed primary circuit operator;
- ability to independently manage as a non-licensed primary circuit operator for a period of minimum 1 month.

Further information:

MANDATORY VOCATIONAL THEORETICAL SUBJECTS

General Course on Nuclear Power Plants	100 hours
Reactor Engineering Skills	100 hours
Reactor Operator Skills	100 hours

MANDATORY VOCATIONAL PRACTICAL SUBJECTS

Filled in by the exam organiser.

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

SEAL