



1. TITLE OF THE PROFESSION

10324023 Vízkútfúró

2. TRANSLATED TITLE OF THE PROFESSION

Water well driller

(THIS TRANSLATION HAS NO LEGAL STATUS)

3. PROFILE OF SKILLS AND COMPETENCES

- the water well operator carries out works related to the construction, operation, renovation or decommissioning of water wells;
- the operator designates the precise location of the well at the drilling site and subsequent to the delivery of the equipment and tools to the site, sets up, assembles and brings the drilling equipment into working order;
- establishes the water supply and flushing system required for the drilling activity and then prepares the flushing fluid;
- provides for the lubrication and fuel supply to ensure the proper functioning of the drilling equipment, maintains the drilling equipment and its accessories during its operation;
- takes into account the specifics of the well to be established, selects the appropriate drill type, assembles the drill bit and uses it to advance the drilling process;
- manages the drilling mud during drilling when necessary;
- performs laboratory tests, takes drill bit samples, possibly core samples, documents the depth of the samples and provides for their storage;
- selects the suitable layers for draining based on borehole geophysical studies carried out in the hole by a specialist company, determines the location of the cap;
- performs expansion drilling and liner tubing;
- insulates the ring space next to the inlet pipe columns, performs coating cementation to preserve the purity of the water in the drained water supply layers in addition to the casing pipe stack;
- subsequent to additional expansion drilling — in order to ensure the inflow of water from the designated aquifer — installs the production liner pipe (filter pipe);
- prepares a gravel cover around the filter, then places the sealant on the mouth of the filter tube, which ensures the watertight insulation of the pipe gap;
- performs purification pumping (purification compressing) to remove the fine rock debris obstructing the water flow and to extract the maximum water yield available, and then performs a multi-stage test pumping and refill measurement to determine the hydraulic characteristics of the well;
- repairs cables and ropes that may have been severed in the course of the work, handles drilling and technical accidents with expertise;
- responsible for the extraction of drill bits, drill holes, drilling rigs and equipment, using the appropriate rescue equipment;
- the water well driller is also responsible for repairing, maintaining, or refurbishing technically inadequate water-producing wells;
- carries out the professional termination of wells that are no longer in use or in a state of disrepair;
- the water well driller prepares the well for performing instrumental verification measurements, in the case of geophysical measurements, assists professionals carrying out the measurements;
- capable of independently carrying out certain measurements (water level, water flow, backflow, well depth measurements, etc.);
- the water well driller keeps drilling logs as well as electronic and hardcopy construction logbooks related to their work activity, prepares the material inventory, compiles the data required for the production of the hydrological logbooks;
- prepares the technical delivery documentation of the well after the completion of the construction works;
- the water well driller is responsible for contacting customers, providing professional information and handling complaints;
- as a contractor, prepares price quotations and enters into a construction contract with his clients, issues electronic invoices for the performance of their work;
- in the course of their work, complies with the technical, safety, environmental, fire and other specific regulations for water well drilling.

4. CLASSIFICATION OF THE VOCATIONAL TRAINING ACCORDING TO THE ISCED FIELDS OF EDUCATION AND TRAINING (ISCED-F)

1032 Personal and property protection

(*) Explanatory notes:

¹ In the original language. | ² The translation of the designation is provided for information purposes only. | ³ Fill it out if necessary. The certificate supplement provides additional information on the qualification but have no legal value in itself. The format of the description is in conformity with Decision (EU) 2018/646 of the European Parliament and of the Council of 18 April 2018 on a common framework for the provision of better services for skills and qualifications (Europass) and repealing Decision No 2241/2004/EC.

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5. OFFICIAL BASIS OF THE CERTIFICATE

<p>Name and status of the authority issuing the certificate</p>	<p>Name and status of the national/regional authority providing accreditation/recognition of the certificate</p> <p>Ministry for Innovation and Technology</p>															
<p>Level of the certificate (national or international)</p> <p>NQF level: 4</p> <p>EQF level: 4</p> <p>Digital Competence Framework level: 3</p>	<p>Grading scale / Pass requirements</p> <p>Five -grade: 5 excellent 4 good 3 satisfactory 2 pass 1 fail</p>															
<p>Certificate number: CXK A</p> <p>Serial number: 123456</p> <p>Certificate issue date: 2024.02.09</p>	<p>Designation of the theoretical and practical subjects of the vocational qualification examination and their grades according to a five-grade scale</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="3">written</td> </tr> <tr> <td style="width: 80%;">Water well drilling basic theoretical knowledge</td> <td style="width: 10%; text-align: center;">100%</td> <td style="width: 10%; text-align: center;">5</td> </tr> <tr> <td colspan="3">project exercise</td> </tr> <tr> <td>Water well drilling practical knowledge</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> <tr> <td>Result of the qualification examination</td> <td style="text-align: center;">100%</td> <td style="text-align: center;">5</td> </tr> </table>	written			Water well drilling basic theoretical knowledge	100%	5	project exercise			Water well drilling practical knowledge	100%	5	Result of the qualification examination	100%	5
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<p>Access to next level of education/training</p> <p>Advancement to the next level of education/training</p>	<p>International agreements</p>															
<p>Other information concerning the vocational training process</p> <p>Ministry of the Environment and Water Decree no 101/2007. (XII 23.) on the professional requirements for intervention in groundwater resources and water well drilling A precondition for admission to the qualifying exam is the submission of the training portfolio, which includes the well drilling work carried out at the practical training site.</p>																
<p>Legal basis</p> <p>Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act, Government Decree 319/2020 (VII. 1.) on the amendment of Government Decree 12/2020 (II. 7.) on the Implementation of the Vocational Education and Training Act, Government Decree 11/2020 (II. 7.) on the Implementation of the Act on Adult Education, Government Decree 292/2023 (VII. 6.) on the amendments to government decrees due to the ex-post impact assessment of the transformation in vocational education and training.</p>																

6. OFFICIALLY RECOGNISED WAYS OF ACQUIRING THE CERTIFICATE

Description of the sectoral basic training and the theoretical and practical vocational training	Distribution of programme elements in percentage
Total duration of the education/training	800 hours
<p>Entry requirements:</p> <ul style="list-style-type: none">- Primary school education- Medical fitness requirement: necessary <p>Further information:</p> <p>WRITTEN EXAMINATION EXERCISES Interpretation of hydrogeological profiles, qualification aspects of the environment affected by the construction of the well, designation of strata sections suitable for tapping, knowledge related to water law licensing procedures and the management of well-drilling documents, data provision, setting up a business and monitoring the market, contracting, issuing invoices</p> <p>PROJECT EXERCISES A.) Presentation and brief oral presentation of portfolio. Professional discussion with the board of examiners. Candidate randomly draws a complex task from a list of subjects. Topics: presentation of drilling point designation, selection of equipment, tools, and materials to be used during well drilling, presentation of well drilling workplace design, safe working conditions, presentation of drilling machine assembly, setup, commissioning, presentation of drilling machine operation, inspection, general and periodic maintenance, borehole deepening, borehole expansion and mud treatment, as well as a demonstration of the sampling of drill bits and other rock samples, demonstration of the installation of a casing pipe stack, demonstration of the installation of a pipe shoe, demonstration of the assembly of a cementing system, preparation and pumping of cement slurry, demonstration of the formation of a filter pipe stack, its installation and graveling, cleaning compression, filter and layer cleaning, and demonstration of test pumping and backfill measurement, demonstration of the finishing operations, closing of the completed well, and the orderly abandonment of the work area.</p> <p>You can find more information on the Programme and System Requirements in the following link: https://ikk.hu This certificate supplement was elaborated in accordance with the programme requirements registered by the minister responsible for VET.</p> <p>National Reference Point: National Office of Vocational Education and Training and Adult Learning: https://nrk.nive.hu</p>	

Head of Examination Organiser:
Issue date: 2024.02.09

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