

1. Title of the certificate ⁽¹⁾

Biyomedikal Cihaz Teknolojileri Alanı
Yaşam Destek ve Tedavi Cihazları Dalı

⁽¹⁾ In the original language

2. Translated title of the certificate ⁽¹⁾

Biomedical Device Technologies Field
Life-Support and Treatment Devices Branch

⁽¹⁾ If applicable. This translation has no legal status.

3. Profile of skills and competences

The holder of this certificate;

- Recognizes electric-electronic materials related to biomedical systems and performs basic measurements.
- Reads and draws drawings related to biomedical systems.
- Communicates written and verbally by using medical terms on biomedical devices and technical communication devices.
- Explains analog and numeric processing methods of detectors / convertors used in processing signals, bio potential amplifiers with biologic indicators at biomedical systems.
- Performs organizations of medical technologies.
- Controls pneumatic-hydraulic and microcontroller systems used in biomedical systems.
- Performs installation and mounting, periodical maintenances and calibrations and repairs by defining breakdowns in vivo of emergency support equipments (emergency and patient transport vehicles, defibrillator devices, humidifier devices, aspirators, operating room lamps).
- Performs installation and mounting, periodical maintenances and calibrations and repairs by defining breakdowns in vivo of special care devices (dialysis, intravenous therapy, incubator).
- Performs installation and mounting, periodical maintenances and calibrations and repairs by defining breakdowns in vivo of special treatment devices (extracorporeal shock wave lithotripsy (ESWL), dental units, hyperbaric oxygen treatment, radiotherapy, physiotherapy).
- Performs installation and mounting, periodical maintenances and calibrations and repairs by defining breakdowns in vivo of intensive care devices (artificial respiration, anaesthesia, heart-lung, operation room systems).
- Performs installation and mounting, periodical maintenances and calibrations and repairs by defining breakdowns in vivo of surface active devices (electrocautery, hearing aids, tens, vibration).
- Distinguishes medical gases, make connections of devices with computer and related peripheral units.

4. Range of occupations accessible to the holder of the certificate ⁽¹⁾

Can work at public-private health institutions/organizations on field related Production, Installation and Maintenance-Repair Services as Life Support and Treatment Devices Service Personnel.

⁽¹⁾ If applicable

^(*) Explanatory note

This document is designed to provide additional information about the specified certificate and does not have any legal status in itself. The format of the description is based on the following texts: 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.

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5. Official basis of the certificate

Name and status of the body awarding the certificate Related secondary education institutions realising formal vocational and technical education which is subordinated to Ministry of National Education	Name and status of the national/regional authority providing accreditation/recognition of the certificate Ministry of National Education												
Level of the certificate (national or international) Level 4 occupation according to EQF. Level 4 occupation according to TQF. It complies with ISCED 3. ISCED-F CODE: 0714	Grading scale / Pass requirements <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: left;"><u>Score</u></td> <td style="text-align: left;"><u>Grade</u></td> </tr> <tr> <td>85.00-100</td> <td>Excellent</td> </tr> <tr> <td>70.00-84.99</td> <td>Good</td> </tr> <tr> <td>60.00-69.99</td> <td>Average</td> </tr> <tr> <td>50.00-59.99</td> <td>Passing</td> </tr> <tr> <td>0-49,99</td> <td>Fails</td> </tr> </table>	<u>Score</u>	<u>Grade</u>	85.00-100	Excellent	70.00-84.99	Good	60.00-69.99	Average	50.00-59.99	Passing	0-49,99	Fails
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50.00-59.99	Passing												
0-49,99	Fails												
Access to next level of education/training The holder of this diploma can switch to higher education programs in line with the related legislation.	International agreements												
Legal basis National Education Basic Law No. 1739 Vocational Education Law No. 3308 Regulation on Ministry of National Education Secondary Education Institutions													

6. Officially recognised ways of acquiring the certificate

1. Having completed the vocational and technical Anatolian High School, Anatolian vocational or Anatolian technical program providing four-year education 2. Successfully having completed the education program related to his/her field on vocational open education high school						
Vocational education takes 3 years after the 9th grade of formal education and the percentage and duration of theoretical and practical education within the program are indicated below. Vocational education is provided both theoretically and practically.						
Description of vocational education and training received	Percentage of total programme (%)			Duration (hours/weeks/months/years)		
	Anatolian Vocational Program	Anatolian Technical Program	Vocational Training Center	Anatolian Vocational Program	Anatolian Technical Program	Vocational Training Center
School-/training centre-based	80	93	-	86	108	-
Workplace-based	20	7	-	22	8	-
Total duration of the education/ training leading to the certificate				108	116	-
Entry requirements 1. For formal vocational education, having completed the lower secondary school and not exceeding the age limit according to related legislation 2. For vocational open education highschool, having completed the lower secondary school 3. Achieving year-end success average in line with the related legislation after the 9th grade which is common for Anatolian technical program 4. Passing the exam for secondary education institutions for entering vocational and technical Anatolian High School, Anatolian vocational or Anatolian technical program						
Additional information This EUROPASS Certificate Supplement is prepared for graduates of 2018-2020.						
More information (including a description of the national qualifications system) available at: www.myk.gov.tr www.tyc.gov.tr						

Europass

<https://www.europass.gov.tr/>

<https://europass.cedefop.europa.eu/>

National Reference Point

<http://urn.meb.gov.tr>