

## 1. Title of the certificate <sup>(TR)</sup>

### Motor Testçisi Mesleki Yeterlilik Belgesi (Seviye 5)

<sup>(1)</sup> In the original language

## 2. Translated title of the certificate <sup>(EN)</sup>

### Engine Tester VQA Vocational Qualification Certificate (Level 5)

<sup>(1)</sup> If applicable. This translation has no legal status.

## 3. Profile of skills and competences

A typical holder of the certificate is able to:

UNIT CODE	TYPE	UNITS
11UY0009-5/A1	MANDATORY	<p><b>Occupational Health and Safety, Environmental Management Systems</b></p> <ul style="list-style-type: none"> <li>• Knows the steps to be followed in case of emergency at the level to explain.</li> <li>• Knows the calibration periods of the measuring and testing devices.</li> <li>• Knows the flammable and inflammable materials at the working environment.</li> <li>• Knows specific environmental protection standards.</li> <li>• Knows the legislation on the occupational health and safety and workplace rules.</li> <li>• Knows the occupational health and safety protection and intervention tools.</li> <li>• Has knowledge about the risks influencing occupational health and safety.</li> <li>• Knows the protective and preventive maintenance operations.</li> <li>• Knows the faults which can occur at the engine and used hardwares.</li> <li>• Has basic knowledge about auto electricity and electronics.</li> <li>• Has knowledge of risk analysis.</li> <li>• Performs the operability controls of the equipment at test room.</li> <li>• Has knowledge of basic first aid.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Applies required procedures in case of emergency.</li> <li>• Troubleshoots the faults at the connection points of dynamometer.</li> <li>• Applies occupational safety precautions.</li> <li>• Applies required first aid steps in case of working accident.</li> <li>• Takes precautions related to the occupational health and safety.</li> <li>• Uses personal protective equipments.</li> <li>• Performs engine sound analysis.</li> <li>• Pours and pours from all of the fluids required for engine start.</li> <li>• Monitors the values as oil pressure and overheating during testing.</li> <li>• Performs the operability controls of the equipment at test room.</li> <li>• Works in compliance with the meanings of warning and signs.</li> <li>• Determines the depreciated, end-of-life parts.</li> <li>• Determines the situations which can affect occupational health and safety at working environment.</li> <li>• Controls the operability of safety mechanisms related to the working hardwares.</li> <li>• Ensures the keeping of flammable and inflammable materials at the working environment safely.</li> <li>• Ensures the operativeness of occupational health and safety protection and intervention tools.</li> <li>• Uploads, runs the software of the computer in use and troubleshoots possible errors.</li> <li>• Follows the performing of adjustments of measure and control tools systematically.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Troubleshoots possible faults by realizing unusual sounds during testing.</li> </ul>

		<ul style="list-style-type: none"> <li>Places the warning and signs at appropriate positions.</li> </ul>
11UY0009-5/A2	MANDATORY	<p><b>Quality Management System</b></p> <ul style="list-style-type: none"> <li>Knows the quality requirements related to maintenance operations.</li> <li>Knows the quality assurance techniques.</li> <li>Has general knowledge about quality control and management systems.</li> <li>Knows the tests appropriate for the type of the engine.</li> <li>Knows the calibration periods of the measuring and testing devices.</li> <li>Has knowledge of risk analysis.</li> <li>Knows the routine mechanical adjustments.</li> <li>Performs the operability controls of the equipment at test room.</li> <li>Knows the general procedures of the tests.</li> <li>Knows the national quality legislations and technical standards.</li> <li>Knows the meanings of warning and signs.</li> <li>Conducts the quality requirements related to maintenance operations.</li> <li>Tests the operability of the computer and its softwares.</li> <li>Conducts technical procedures related to the quality assurance.</li> <li>Uses personal protective equipments.</li> <li>Makes the routine mechanical adjustments.</li> <li>Conducts the quality requirements according to instructions.</li> <li>Reads the basic sketch and technical drawings.</li> <li>Performs the operability controls of the equipment at test room.</li> <li>Works in compliance with the meanings of warning and signs.</li> <li>Works in accordance with the quality requirements of machine, tool, hardware or systems.</li> <li>Determines the testing order in compliance with the type of the engine, instructions and work plan.</li> <li>Follows the performing of adjustments of measure and control tools systematically.</li> <li>Determines the risk factors in advance and reduces the risk.</li> <li>Reads the basic sketch and technical drawings.</li> <li>Controls the conformity of the starting process of the test with procedures according to the type of the test.</li> <li>Controls the conformity and accuracy of the data kept during the tests.</li> <li>Ensures the realization of tests within the define specifications.</li> <li>Places the warning and signs at appropriate positions.</li> </ul>
11UY0009-5/A3	MANDATORY	<p><b>Arranging the Work and Tools</b></p> <ul style="list-style-type: none"> <li>Knows the flammable and inflammable materials at the working environment.</li> <li>Knows the flammable and inflammable materials at the working environment.</li> <li>Has knowledge of keeping working environment and equipments at test room in order.</li> <li>Has knowledge about daily business plan.</li> <li>Knows the legislation on the occupational health and safety and workplace rules.</li> <li>Knows the junctions and shapes of the engine.</li> <li>Knows the instructions of carrying and lifting the engine.</li> <li>Has basic knowledge of measuring and testing techniques.</li> <li>Knows the calibration periods of the measuring and testing devices.</li> <li>Knows the routine mechanical adjustments.</li> <li>Knows the operations of disassembly, assembly, fastening.</li> <li>Has knowledge of basic sketch and technical drawings at the level to examine.</li> <li>Knows the general procedures of the tests.</li> <li>Knows the meanings of warning and signs.</li> <li>Connects all of the cable, pipe and chanel systems whose junctions are required to the engine.</li> <li>Uses hand tool and wrench sets.</li> <li>Controls the junctions of electrical and mechanical systems.</li> <li>Applies the general test plan.</li> <li>Uses personal protective equipments.</li> <li>Pours the entire fluids required for engine start at appropriate levels.</li> <li>Brings the engine to the test room safely and positions.</li> <li>Pours and pours from all of the fluids required for engine start.</li> <li>Disassembles the dynamometer junctions of the engine.</li> <li>Controls the levels of entire oil and other fluids of the engine.</li> <li>Performs disassembling, assembling, fastening operations.</li> <li>Reads the basic sketch and technical drawings.</li> <li>Works in compliance with the meanings of warning and signs.</li> <li>Determines the testing order in compliance with the type of the engine,</li> </ul>

		<p>instructions and work plan.</p> <ul style="list-style-type: none"> <li>• Controls the parts on the engine as filters and fuel/water pump.</li> <li>• Follows the performing of adjustments of measure and control tools systematically.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Controls the conformity of the starting process of the test with procedures according to the type of the test.</li> <li>• Ensures the realization of tests within the define specifications.</li> <li>• Places the warning and signs at appropriate positions.</li> </ul>
<p>11UY0009-5/A4</p>	<p>MANDATORY</p>	<p><b>Final Control and Reporting</b></p> <ul style="list-style-type: none"> <li>• Knows the information and evaluation forms at the level to explain.</li> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Has full knowledge of daily business plan.</li> <li>• Knows the meaning of basic commands in English.</li> <li>• Knows the faults which can occur at the engine and used hardwares at the level to explain.</li> <li>• Has sufficient knowledge to perform risk analysis.</li> <li>• Knows the operations of disassembly, assembly, fastening.</li> <li>• Has full knowledge of the required parameters and values to start tests.</li> <li>• Has full knowledge of the general procedures of the tests.</li> <li>• Fills in the information and evaluation forms.</li> <li>• Uses computer and required softwares in compliance with the usage instructions.</li> <li>• Troubleshoots the faults at the junctions of dynamometer.</li> <li>• Controls the junctions of electrical and mechanical systems.</li> <li>• Uses personal protective equipments.</li> <li>• Disassembles the dynamometer junctions of the engine.</li> <li>• Records the deviations at measuring results.</li> <li>• Performs the operations of disassembly, assembly, fastening.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Determines the condition of the engine according to the test results.</li> <li>• Transfers the data related to the performed operations to the computer.</li> <li>• Conveys knowledge and experiences to the persons working with.</li> <li>• Makes statistical calculations and reportings by using computer.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Performs related dispatch operations of the engine according to the test results.</li> <li>• Controls the accuracy of the data kept during the tests.</li> <li>• Knows the steps to be followed in case of emergency at the level to explain.</li> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Knows the operations related to the training evaluation forms.</li> <li>• Has knowledge about training techniques.</li> <li>• Has full knowledge of usage instructions of hand tools and wrench sets.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the measuring and testing techniques.</li> <li>• Knows the operations of disassembly, assembly, fastening.</li> <li>• Has knowledge of basic first aid.</li> <li>• Knows the basic sketch and technical drawings at the level to examine.</li> <li>• Has full knowledge of the general procedures of the tests.</li> <li>• Knows the national quality legislations and technical standards at the level to explain.</li> <li>• Applies required procedures in case of emergency.</li> <li>• Fills in the training evaluation forms.</li> <li>• Applies the training techniques.</li> <li>• Uses computer and required softwares in compliance with the usage instructions.</li> <li>• Uses hand tool and wrench sets.</li> <li>• Applies occupational safety precautions.</li> <li>• Records the deviations at measuring results.</li> <li>• Makes the routine mechanical adjustments.</li> <li>• Performs the operations of disassembly, assembly, fastening.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Transfers the data related to the performed operations to the computer.</li> </ul>

<p>11UY0009-5/B1</p>	<p>OPTIONAL</p>	<p><b>Pre-Testing Controls</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Has full knowledge of daily business plan.</li> <li>• Has full knowledge of hydraulic pneumatic systems.</li> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Has full knowledge of daily business plan.</li> <li>• Has full knowledge of hydraulic pneumatic systems.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Has full knowledge of the usage instructions of engine carrying and lifting device.</li> <li>• Knows the systems to be connected to the engine at the level to explain.</li> <li>• Has knowledge to sorting the tests appropriate for the type of the engine.</li> <li>• Knows the faults which can occur at the engine and used hardwares at the level to explain.</li> <li>• Has full knowledge of the junctions and shapes of the engine.</li> <li>• Knows the measuring and testing techniques.</li> <li>• Has full knowledge of the routine mechanical adjustments.</li> <li>• Knows the operations of disassembly, assembly, fastening.</li> <li>• Has full knowledge of the operability controls of the equipment at test room.</li> <li>• Has full knowledge of the required parameters and values to start tests.</li> <li>• Has full knowledge of the general procedures of the tests.</li> <li>• Connects all of the cable, pipe and channel systems whose junctions are required to the engine.</li> <li>• Uses computer and required softwares in compliance with the usage instructions.</li> <li>• Tests the operability of the computer and its softwares.</li> <li>• Controls the junctions of electrical and mechanical systems.</li> <li>• Uses hand tool and wrench sets.</li> <li>• Prepares the daily business plan.</li> <li>• Performs the operability controls of the equipment at test room.</li> <li>• Uses personal protective equipments.</li> <li>• Loads the engine to the engine carrying and lifting vehicle.</li> <li>• Brings the engine to the test room safely and positions.</li> <li>• Controls the levels of entire oil and other fluids of the engine.</li> <li>• Makes the routine mechanical adjustments.</li> <li>• Performs the operations of disassembly, assembly, fastening.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Pours the oil and entire other fluids to the engine before tests.</li> <li>• Determines the depreciated, end-of-life parts.</li> <li>• Determines the situations which can affect occupational health and safety at working environment.</li> <li>• Controls the operability of safety mechanisms related to the working hardwares.</li> <li>• Ensures the keeping of flammable and inflammable materials at the working environment safely.</li> <li>• Uploads, runs the software of the computer in use and troubleshoots possible errors.</li> <li>• Defines the appropriate tests at the daily plan according to the type of the engine.</li> <li>• Controls the parts on the engine as filters and fuel/water pump.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Enters the appropriate parameter and values to the software so as to start test operations.</li> </ul>
<p>11UY0009-5/B2</p>	<p>OPTIONAL</p>	<p><b>Testing Operations</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Has full knowledge of hydraulic pneumatic systems.</li> <li>• Has knowledge of quality assurance techniques at the level to conduct comparatively.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Has full knowledge of the junctions and shapes of the engine.</li> <li>• Has full knowledge of the appropriate levels of entire fluids required for engine to operate properly.</li> <li>• Knows the faults which can occur at the engine and used hardwares at the level to explain.</li> </ul>

		<ul style="list-style-type: none"> <li>• Knows the appropriate values of factors as overheating, vibrations and oil pressure of the engine at the level to explain.</li> <li>• Has knowledge about auto electricity and electronics.</li> <li>• Knows the measuring and testing techniques.</li> <li>• Has sufficient knowledge to perform risk analysis.</li> <li>• Knows the basic sketch and technical drawings at the level to examine.</li> <li>• Has full knowledge of the general procedures of the tests.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Knows the abrasion, load and aging tests.</li> <li>• Connects all of the cable, pipe and channel systems whose junctions are required to the engine.</li> <li>• Uses computer and required softwares in compliance with the usage instructions.</li> <li>• Troubleshoots the faults at the junctions of dynamometer.</li> <li>• Uses hand tool and wrench sets.</li> <li>• Applies the general test plan.</li> <li>• Uses personal protective equipments.</li> <li>• Performs engine sound analysis.</li> <li>• Connects the engine to the dynamometer.</li> <li>• Tests the theoretical working life and load capacity of the engine.</li> <li>• Performs the operations of disassembly, assembly, fastening.</li> <li>• Monitors the values as oil pressure and overheating during testing.</li> <li>• Works in compliance with the warning and signs.</li> <li>• Transfers the data related to the performed operations to the computer.</li> <li>• Determines the situations which can affect occupational health and safety at working environment.</li> <li>• Interprets the test results received from the dynamometer.</li> <li>• Makes statistical calculations and reportings by using computer.</li> <li>• Ensures the operativeness of occupational health and safety protection and intervention tools.</li> <li>• Works in accordance with the quality requirements of machine, tool, hardware or systems.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Reads the basic sketch and technical drawings.</li> <li>• Reads, records the data and makes required adjustments during the test.</li> <li>• Troubleshoots possible faults by realizing unusual sounds during testing.</li> <li>• Controls the conformity of the starting process of the test with procedures according to the type of the test.</li> <li>• Ensures the realization of tests within the define specifications.</li> </ul>
<p><b>11UY0009-5/B3</b></p>	<p><b>OPTIONAL</b></p>	<p><b>Post-Testing Operations</b></p> <ul style="list-style-type: none"> <li>• Knows the steps to be followed in case of emergency at the level to explain.</li> <li>• Has full knowledge of the quality requirements related to maintenance operations.</li> <li>• Knows the information and evaluation forms at the level to explain.</li> <li>• Has full knowledge of the usage instructions of computer and required softwares.</li> <li>• Knows keeping working environment and equipments at test room in order.</li> <li>• Has full knowledge of usage instructions of hand tools and wrench sets.</li> <li>• Has full knowledge of daily business plan.</li> <li>• Knows the legislation on the occupational health and safety and workplace rules.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the faults which can occur at the engine and used hardwares at the level to explain.</li> <li>• Has full knowledge of the junctions and shapes of the engine.</li> <li>• Knows the performance targets of the engine.</li> <li>• Knows the problems which can occur at the parts and their reasons at the level to explain.</li> <li>• Knows the sources which can result in performance loss.</li> <li>• Has sufficient knowledge to perform risk analysis.</li> <li>• Knows the operations of disassembly, assembly, fastening.</li> </ul>

(<sup>1</sup>) If applicable

**(<sup>1</sup>) 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

<b>Name and status of the body awarding the certificate</b> Engine Tester (Level 5) Vocational Qualification Certificate, is awarded by Authorised Certification Bodies authorised by Vocational Qualification Authority. The list of Authorised Bodies available at: <a href="http://www.myk.gov.tr/ybk">http://www.myk.gov.tr/ybk</a>	<b>Name and status of the national/regional authority providing accreditation/recognition of the certificate</b> Vocational Qualification Authority (Mesleki Yeterlilik Kurumu) Ziyabey Caddesi 1420. Sokak No:12 Balgat Çankaya/ANKARA TURKIYE <a href="http://www.myk.gov.tr">www.myk.gov.tr</a>
<b>Level of the certificate (national or international)</b> ISCO 8:7232 and Level 5- Turkish Qualifications Framework Detailed information on Turkish Qualifications Framework available at: <a href="http://www.tyc.gov.tr">http://www.tyc.gov.tr</a>	<b>Grading scale / Pass requirements</b> It is required that the candidate must be successful at all of the units in at least one of the alternatives below for obtaining Engine Tester (Level 5) Vocational Qualification Certificate. I. Alternative: A1, A2, A3, A4, B1, B2,B3,B4 II. Alternative: A1, A2, A3, A4, B1, B2, B3
<b>Access to next level of education/training</b> -	<b>International agreements</b> -
<b>Legal basis</b> Vocational Qualification Authority Law No. 5544	

## 6. Officially recognised ways of acquiring the certificate

This document is prepared for candidates applying to authorised certification bodies, in the case of meeting the performance criteria after theoretical and applied assessments are made and each required unit for obtaining the qualification is successfully completed.

The performance criteria and assessment rates may be different for each qualification.

**Entry requirements**

There is not an entry requirement for this national qualification.

**Information**

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**Additional information**

It is an equitable, transparent and confidential system including rules and activities regarding the development and application of technical and vocational education standards and qualifications, and accreditation, authorisation, audit, assessment, certification related to them, based on national and international occupational standards.

The levels of VQA Vocational Qualification Certificates in relation to Turkish Qualifications Framework are defined as a result of comparing the learning outcomes of the related national qualification to TQF level descriptors. TQF level descriptors, defining the minimum learning outcomes required for the qualifications levelled according to TQF, are available at <http://www.tyc.gov.tr/st>. Since TQF is referenced to European Qualifications Framework (EQF), eight TQF levels correspond to eight EQF levels. Level 5 qualifications for which this certificate herein is issued are defined as "Employee exercises management and supervision of work or study activities where there is unpredictable change; reviews and develops performance of self and others."

**More information (including a description of the national qualifications system) available at:**

**Vocational Qualifications Authority**

[www.myk.gov.tr](http://www.myk.gov.tr) [www.tyc.gov.tr](http://www.tyc.gov.tr)

**Europass**

[www.europass.gov.tr](http://www.europass.gov.tr) <https://europass.cedefop.europa.eu/>