

1. Title of the certificate <sup>(TR)</sup>
<b>Otomotiv Prototipçisi Mesleki Yeterlilik Belgesi</b> (Seviye 5)
<sup>(1)</sup> In the original language

2. Translated title of the certificate <sup>(EN)</sup>
<b>Automotive Prototype Technician VQA Vocational Qualification Certificate</b> (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
11UY0008-5/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 operations related to the wastes.</li> <li>• Knows flammable and inflammable materials at working environment at the level to determine.</li> <li>• Is knowledgeable about keeping working environment and equipment in order.</li> <li>• Knows materials which can be transformed at the level to distinguish.</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 full knowledge of the risks influencing occupational health and safety.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the materials which are inconvenient to use at the level to determine.</li> <li>• Knows the calibration periods of the measuring and testing devices.</li> <li>• Has knowledge about hitches as abrasion, deterioration and attrition at part and hardwares.</li> <li>• Knows the risk factors at the level to determine.</li> <li>• Knows the cleaning supplies and their usage instructions.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Has knowledge about the environmental impacts of realised operations.</li> <li>• Applies required procedures in case of emergency.</li> <li>• Keeps working area in order and clean.</li> <li>• Applies maintenance stages for operating hardwares properly and continuously.</li> <li>• Separates the materials which can be transformed.</li> <li>• Applies occupational safety precautions.</li> <li>• Applies required first aid steps in case of working accident.</li> <li>• Takes the precautions related to the occupational health and safety.</li> <li>• Observes environmental impacts during application of business processes.</li> <li>• Uses personal protective equipments.</li> <li>• Distinguishes hazardous wastes safely.</li> <li>• Performs cleaning operations according to the usage instructions.</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</li> </ul>

		<p>intervention tools.</p> <ul style="list-style-type: none"> <li>• Takes precautions for reducing environmental impacts during operations.</li> <li>• Monitors the periodical performing of measuring tool and device calibrations.</li> <li>• Tracks the operating lives of the parts.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Places the warning and signs to appropriate positions.</li> <li>• Works according to the protection method to be applied.</li> </ul>
11UY0008-5/A2	MANDATORY	<p><b>Quality Management System</b></p> <ul style="list-style-type: none"> <li>• Knows the operations related to the information and evaluation forms at the level to explain.</li> <li>• Is knowledgeable about keeping working environment and equipment in order.</li> <li>• Knows the jurisdiction in case of fault and defect.</li> <li>• Knows the permissible tolerance and deviation limits of quality requirements.</li> <li>• Has full knowledge of the quality assurance techniques.</li> <li>• Has full knowledge of the operations related to the quality and waste/fault forms.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the materials which are inconvenient to use at the level to determine.</li> <li>• Knows the calibration periods of the measuring tool and devices.</li> <li>• Is knowledgeable about hitches as abrasion, deterioration and attrition at part and hardwares.</li> <li>• Knows the cleaning supplies and their usage instructions.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Performs the operations related to defective hardware and parts.</li> <li>• Fills in the information and evaluation forms.</li> <li>• Keeps working area in order and clean.</li> <li>• Applies maintenance stages for operating hardwares properly and continuously.</li> <li>• Conducts technical procedures related to the quality assurance.</li> <li>• Fills in the quality and waste/fault forms.</li> <li>• Determines and records the deviations at measurement results.</li> <li>• Works in compliance with the meanings of warning and signs.</li> <li>• Determines the depreciated, end-of-life parts.</li> <li>• Works in coordination within the team.</li> <li>• Works in accordance with the quality requirements of machine, tool, hardware or systems.</li> <li>• Checks the quality of the works at the basis of operation</li> <li>• Monitors the periodical performing of measuring tool and device calibrations.</li> <li>• Tracks the operating lives of the parts.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Places the warning and signs at appropriate positions.</li> <li>• Works according to the protection method to be applied.</li> </ul>
11UY0008-5/A3	MANDATORY	<p><b>Arranging the Work and Tools</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 operations related to defective hardware and vehicles.</li> <li>• Is knowledgeable about keeping working environment and equipments in order.</li> <li>• Knows materials which can be transformed at the level to distinguish.</li> <li>• Knows the jurisdiction in case of fault and defect.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the materials which are inconvenient to use at the level to determine.</li> <li>• Knows the calibration periods of the measuring tool and devices.</li> <li>• Has full knowledge of the measuring and testing techniques.</li> <li>• Has knowledge about hitches as abrasion, deterioration and attrition at part and hardwares.</li> <li>• Has knowledge about the operating lives of the parts.</li> <li>• Has knowledge about sketch and technical drawings belonging to the prototype.</li> <li>• Knows the risk factors at the level to determine.</li> <li>• Knows the cleaning supplies and their usage instructions.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Applies required procedures in case of emergency.</li> <li>• Performs the operations related to defective hardware and parts.</li> <li>• Keeps working area in order and clean.</li> <li>• Prepares apparatus, hardwares and tool required for work.</li> <li>• Applies maintenance stages for operating hardwares properly and continuously.</li> <li>• Separates the materials which can be transformed.</li> <li>• Applies the occupational safety rules.</li> <li>• Uses personal protective equipments.</li> </ul>

		<ul style="list-style-type: none"> <li>• Reads the sketch and technical drawings belonging to the prototype.</li> <li>• Distinguishes hazardous wastes safely.</li> <li>• Performs cleaning operations according to the usage instructions.</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>• Puts the tool and hardwares whose related operations completed to appropriate places.</li> <li>• Monitors the periodical performing of measuring tool and device calibrations.</li> <li>• Understands and interprets the sketch and technical drawings belonging to the prototype.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Places the warning and signs at appropriate positions.</li> <li>• Works according to the protection method to be applied.</li> </ul>
<p>11UY0008-5/A4</p>	<p><b>MANDATORY</b></p>	<p><b>Final Control and Reporting</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the operations related to defective hardware and vehicles.</li> <li>• Knows the operations related to the information and evaluation forms at the level to explain.</li> <li>• Knows the informing procedure about the general condition of the hardwares.</li> <li>• Has full knowledge of the quality assurance techniques.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Knows the materials which are inconvenient to use at the level to determine.</li> <li>• Has full knowledge of the measuring and testing techniques.</li> <li>• Is knowledgeable about hitches as abrasion, deterioration and attrition on part.</li> <li>• Has knowledge about sketch and technical drawings belonging to the prototype.</li> <li>• Knows the risk factors at the level to determine.</li> <li>• Knows the cleaning supplies and their usage instructions.</li> <li>• Knows the meanings of warning and signs.</li> <li>• Performs the operations related to defective hardware and parts.</li> <li>• Fills in the information and evaluation forms.</li> <li>• Applies occupational safety precautions.</li> <li>• Takes the precautions related to the occupational health and safety.</li> <li>• Conducts technical procedures related to the quality assurance.</li> <li>• Uses personal protective equipments.</li> <li>• Determines and records the deviations at measurement results.</li> <li>• Reads the sketch and technical drawings belonging to the prototype.</li> <li>• Performs cleaning operations in compliance with the instructions.</li> <li>• Determines the depreciated, end-of-life parts.</li> <li>• Puts the tool and hardwares whose related operations completed to appropriate places.</li> <li>• Works in accordance with the quality requirements of machine, tool, hardware or systems.</li> <li>• Checks the quality of the works at the basis of operation.</li> <li>• Determines the risk factors in advance and reduces the risk.</li> <li>• Works according to the protection method to be applied.</li> </ul>
<p>11UY0008-5/B1</p>	<p><b>OPTIONAL</b></p>	<p><b>Preparation Operations</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the operations related to having work plans approved.</li> <li>• Knows preparation operations related to the tool, apparatus and kits to be used.</li> <li>• Has full knowledge of the appropriate hardness and quality level of core and skidder kind of parts to be used.</li> <li>• Has full knowledge of jobsharing for prototype manufacturing.</li> <li>• Has full knowledge of the chemical/physical preparation methods of materials to be used in the manufacturing of prototype.</li> <li>• Knows the operation sequence to be applied at prototype manufacturing at the level to describe.</li> <li>• Knows the appropriate tool, apparatus and kits to be used according to the method and material to be applied in prototype manufacturing.</li> <li>• Has full knowledge of the methods for preparing work plan related to prototype manufacturing.</li> <li>• Has knowledge about materials to be used according the specifications of the prototype as endurance, shape and outlook.</li> <li>• Has full knowledge of the manufacturing methods appropriate for the</li> </ul>

		<p>specifications and shape of the prototype.</p> <ul style="list-style-type: none"> <li>• Replaces the end-of-life parts.</li> <li>• Performs preparation operations related to the tool, apparatus and kits to be used.</li> <li>• Prepares the materials to be used in the manufacturing of prototype chemically/physically.</li> <li>• Arranges the operations to be applied in prototype manufacturing.</li> <li>• Prepares the work plan related to prototype manufacturing.</li> <li>• Calculates the total cost of the method to be performed and materials to be used.</li> <li>• Determines the segmentation method at multipartite prototype manufacturing.</li> <li>• Distributes the operations to appropriate persons at division of work.</li> <li>• Controls the appropriate hardness and quality level of core and skidder kind of parts to be used.</li> <li>• Defines the manufacturing methods appropriate for the specifications and shape of the prototype.</li> <li>• Chooses the most appropriate method and materials according to cost factor.</li> <li>• Determines the operations which can cause problem at prototype manufacturing.</li> <li>• Determines the appropriate tool, apparatus and kits to be used according to the method and material to be applied in prototype manufacturing.</li> <li>• Determines the manufacturing of prototype from single or multiple parts.</li> <li>• Determines the appropriate materials to be used according the specifications of the prototype as endurance, shape and outlook.</li> </ul>
<p>11UY0008-5/B2</p>	<p>OPTIONAL</p>	<p><b>Prototype Manufacturing Operations</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the technical drawings of subcomponents.</li> <li>• Knows the appropriate ways of bonding sub mounting units at the level to explain.</li> <li>• Has full knowledge of the multipartite prototype manufacturing processes.</li> <li>• Has full knowledge of the casting, forging, pressing, deep drawing, bending, dressing, cutting, drilling, welding and machining kind of shaping operations.</li> <li>• Knows the desired size and tolerance values of the parts.</li> <li>• Knows the essentials related to adjusting position and alignment of the parts.</li> <li>• Knows the measures to be taken for preventing the damage of the prototype.</li> <li>• Has knowledge about the drawings related to the shaping mechanisms as template, sample, mold and core.</li> <li>• Has knowledge about the standard specifications of shaping mechanisms.</li> <li>• Prepares technical drawings of subcomponents.</li> <li>• Bonds the prototype parts for forming the sub mounting units.</li> <li>• Performs the casting, forging, pressing, deep drawing, bending, dressing, cutting, drilling, welding and machining kind of shaping operations.</li> <li>• Performs required adjustment and correction operations on parts which are noncompliant for the desired size and tolerance values.</li> <li>• Gives the desired shape to the material with shaping mechanisms.</li> <li>• Adjusts the position and alignment of the parts.</li> <li>• Jobshares for prototype manufacturing.</li> <li>• Bonds the sub mounting units for forming prototype.</li> <li>• Uses shaping mechanisms.</li> <li>• Prepares the shaping mechanisms and their apparatus.</li> <li>• Controls whether the operations performed in the correct way.</li> <li>• Controls the conformity of parts to the desired size and tolerance values.</li> <li>• Determines the shaping mechanisms to be used in prototype manufacturing operations.</li> <li>• Finds solutions for problems determined during prototype manufacturing.</li> <li>• Takes the require measures for preventing the damage of the prototype.</li> <li>• Controls the conformity of shaping mechanisms to the desired specifications.</li> </ul>
<p>11UY0008-5/B3</p>	<p>OPTIONAL</p>	<p><b>Control, Test and Certification Operations</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the simple functionality tests.</li> <li>• Knows the usage instructions of computer and required softwares.</li> <li>• Knows the operations related to the admittance form at the level to arrange.</li> <li>• Has knowledge about appropriate devices to be used for examination and control.</li> <li>• Has full knowledge of the operations related to measurement and control reports.</li> <li>• Knows the evaluation criterion of the prototype at the level to explain.</li> <li>• Performs simple functionality tests.</li> <li>• Tests the prototype according to the evaluation criterion.</li> </ul>

		<ul style="list-style-type: none"> <li>• Prepares the admittance form.</li> <li>• Uses appropriate devices for examination and control.</li> <li>• Prepares the measurement and control reports.</li> <li>• Enters the data into the computer regularly and consistently and performs required operations.</li> <li>• Records the type and durations of the performed operations.</li> <li>• Performs simple functionality tests properly and correctly in compliance with the instructions.</li> <li>• Performs operation control of the prototype where necessary.</li> <li>• Determines the problems encountered during prototype production.</li> <li>• Finds solutions for problems determined during prototype manufacturing.</li> <li>• Controls whether the prototype is prepared at the specifications defined at the technical drawings of the prototype.</li> </ul>
<p><b>11UY0008-5/B4</b></p>	<p><b>OPTIONAL</b></p>	<p><b>Training and Development</b></p> <ul style="list-style-type: none"> <li>• Has full knowledge of the operations related to the information and evaluation forms.</li> <li>• Knows the training techniques at the level to describe.</li> <li>• Knows the legislation on the occupational health and safety and workplace rules.</li> <li>• Knows the health and safety protection and intervention tools.</li> <li>• Has full knowledge of the risks influencing occupational health and safety.</li> <li>• Has full knowledge of the quality assurance techniques.</li> <li>• Knows the protective and preventive maintenance operations at the level to explain.</li> <li>• Has knowledge about sketch and technical drawings belonging to the prototype.</li> <li>• Knows the risk factors at the level to determine.</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>• Performs the operations related to defective hardware and parts.</li> <li>• Applies maintenance stages for operating hardwares properly and continuously.</li> <li>• Fills in the training evaluation forms.</li> <li>• Applies occupational safety rules.</li> <li>• Conducts technical procedures related to the quality assurance.</li> <li>• Reads the sketch and technical drawings belonging to the prototype.</li> <li>• Works in compliance with the warning and signs.</li> <li>• Determines the depreciated, end-of-life parts.</li> <li>• Conveys knowledge and experiences to the persons working with.</li> <li>• Determines the situations which can affect occupational health and safety at working environment.</li> <li>• Works in accordance with the quality requirements of machine, tool, hardware or systems.</li> <li>• Understands and interprets the sketch and technical drawings belonging to the prototype.</li> <li>• Places the warning and signs at appropriate positions.</li> </ul>

#### 4. Range of occupations accessible to the holder of the certificate <sup>(1)</sup>

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

#### <sup>(\*)</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> Automotive Prototype Technician (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 08: 7222 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 one of the alternatives of; A1, A2, A3, A4, B1, B2,B3,B4 II. Alternative: A1, A2, A3, A4, B1, B2, B3. III. Alternative: A1, A2, A3, A4, B1, B2 for obtaining Automotive Prototype Technician (Level 5) Vocational Qualification Certificate.
<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/>