

1. Title of the certificate ^(TR)
Otomotiv Elektrikçisi Mesleki Yeterlilik Belgesi (Seviye 4)
⁽¹⁾ In the original language

2. Translated title of the certificate ^(EN)
Automotive Electrician VQA Vocational Qualification Certificate (Level 4)
⁽¹⁾ 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
11UY0019-4/A1	MANDATORY	<p>Occupational Health and Safety, Environmental Management Systems</p> <ul style="list-style-type: none"> • Knows the steps to be followed in case of emergency. • Knows the operations related to separating hazardous wastes from materials at the level to explain. • Has knowledge about flammable and inflammable materials at working environment at the level to recognize. • Has knowledge about keeping working environment and equipments in order. • Knows specific environmental protection standards. • Knows materials which can be transformed. • Knows the legislation on the occupational health and safety and workplace rules. • Knows the health and safety protection and intervention tools. • Knows the risks influencing occupational health and safety. • Knows the operation procedures related to autonomous maintenance. • Has knowledge about materials which are inconvenient to use at the level to recognize. • Is knowledgeable about hitches as abrasion, deterioration and attrition at part and hardwares. • Knows the operating lives of the parts. • Is knowledgeable about risk analysis. • Has knowledge of basic first aid. • Knows the meanings of warning and signs. • Knows the environmental impacts of realised operations. • Applies required procedures in case of emergency. • Keeps working area in order and clean. • Applies maintenance stages for operating hardwares properly and continuously. • Separates the materials which can be transformed. • Applies occupational safety rules. • Applies required first aid steps in case of working accident. • Takes precautions related to the occupational health and safety. • Observes environmental impacts during application of business processes. • Takes precautions for reducing environmental impacts during operations. • Uses personal protective equipments. • Applies the operation procedures related to autonomous maintenance. • Reduces risk factors. • Distinguishes hazardous wastes safely. • Determines the depreciated, end-of-life parts. • Determines the situations which can affect occupational health and safety at working environment. • Controls the operability of safety mechanisms related to the working hardwares. • Ensures the keeping of flammable and inflammable materials at the working environment safely.

		<ul style="list-style-type: none"> • Ensures the operativeness of occupational health and safety protection and intervention tools. • Determines the risk factors. • Performs cleaning operations in compliance with the occupational safety conditions. • Works in compliance with the warning and signs. • Works in accordance with the protection method to be applied. • Determines the environmental impacts of realised operations.
<p>11UY0019-4/A2</p>	<p>MANDATORY</p>	<p>Quality Management System</p> <ul style="list-style-type: none"> • Knows the quality requirements related to maintenance operations. • Knows the operayions related to the information and evaluation forms. • Has knowledge of keeping working environment and equipments in order. • Knows his own jurisdiction at overcoming the problems. • Knows the quality assurance techniques. • Knows the operations related to the quality and waste/fault forms. • Has general knowledge about quality control and management systems. • Has knowledge about materials which are inconvenient to use at the level to recognize. • Has knowledge about hitches as abrasion, deterioration and attrition at part and hardwares. • Knows the quality legislations and technical standards. • Knows the meanings of warning and signs. • Performs the operations related to defective hardware and parts. • Conducts the quality requirements related to maintenance operations. • Stores maintenance and cleaning supplies in appropriate way. • Fills in the information and evaluation forms. • Keeps working area in order and clean. • Applies maintenance stages for operating hardwares properly and continuously. • Conducts technical procedures related to the quality assurance. • Fills in the quality and waste/fault forms. • Performs cleaning operations in compliance with the occupational safety conditions. • Places the warning and signs at appropriate positions. • Determines the depreciated, end-of-life parts. • Works in accordance with the quality requirements of machine, tool, hardware or systems. • Works in compliance with the warning and signs. • Works in accordance with the protection method to be applied. • Controls the conformity of performed operations with projected specifications.
<p>11UY0019-4/A3</p>	<p>MANDATORY</p>	<p>Arranging the Work and Tools</p> <ul style="list-style-type: none"> • Knows the steps to be followed in case of emergency. • Has knowledge about the technical shemes related to the hardware structure of the vehicles and engine. • Knows the operations related to defective hardware and parts. • Knows the operations related to determining the specifications of the vehicle of which the maintenance and repair will be performed. • Has knowledge about keeping working environment and equipments in order. • Knows materials which can be transformed. • Has knowledge about materials which are inconvenient to use at the level to recognize. • Has knowledge about procedures related to the evaluation of customer complaints. • Knows the operation procedures related to autonomous maintenance. • Is knowledgable about hitches as abrasion, deterioration and attrition at part and hardwares. • Knows his own jurisdiction at overcoming the problems. • Knows the cleaning supplies and their usage instructions. • Knows the meanings of warning and signs. • Has knowledge about average durations of operations to be performed. • Applies required procedures in case of emergency. • Records the detriments determined on the vehicle to the related form. • Performs the operations related to defective hardware and parts. • Stores maintenance and cleaning supplies in appropriate way. • Keeps working area in order and clean. • Prepares aparatus, hardwares and tool required for work. • Applies maintenance stages for operating hardwares properly and continuously. • Seperates the materials which can be transformed.

		<ul style="list-style-type: none"> • Applies the occupational safety rules. • Uses personal protective equipments. • Performs required preparation and adjustment operations of tools to be used. • Determines and keeps tracks of spare parts required for repair. • Applies the operation procedures related to autonomous maintenance. • Distinguishes hazardous wastes safely. • Performs cleaning operations in compliance with the occupational safety conditions. • Places the warning and signs at appropriate positions. • Prepares appropriate tools for maintenance repair operations to be performed. • Calculates the approximate cost according to the operations to be performed. • Investigates and evaluates the technical schemes related to the hardware structure and engine of the vehicle. • Controls whether there is physical damage on the vehicle manually. • Defines the required approximate duration required for maintenance repair. • Controls the operability of safety mechanisms related to the working hardwares. • Ensures the keeping of flammable and inflammable materials at the working environment safely. • Puts the tool and hardwares whose related operations completed to appropriate places. • Controls the operating status of the tools to be used. • Investigates the forms related to customer complaints and controls the vehicle. • Defines the vehicle delivery date according to the approximate operation duration. • Works in compliance with the warning and signs. • Works in accordance with the protection method to be applied.
<p>11UY0019-4/A4</p>	<p>MANDATORY</p>	<p>Final Control and Reporting</p> <ul style="list-style-type: none"> • Knows the operations related to defective hardware and parts. • Knows the operayions related to the information and evaluation forms. • Knows the informing procedure about the general condition of the hardwares. • Knows the quality assurance techniques. • Knows the operation procedures related to autonomous maintenance. • Has knowledge about materials which are inconvenient to use at the level to recognize. • Has knowledge about hitches as abrasion, deterioration and attrition at part and hardwares. • Knows the operating lives of the parts. • Knows his own jurisdiction at overcoming the problems. • Has knowledge about risk analysis. • Knows the cleaning supplies and their usage instructions. • Knows the meanings of warning and signs. • Performs the operations related to defective hardware and parts. • Stores maintenance and cleaning supplies in appropriate way. • Fills in the information and evaluation forms. • Performs informing about the general condition of the hardwares in compliance with the procedures. • Applies occupational safety rules. • Takes the precautions related to the occupational health and safety. • Fills in the quality and waste/fault forms. • Uses personal protective equipment. • Applies the operation procedures related to autonomous maintenance. • Reduces risk factors. • Performs cleaning operations in compliance with the occupational safety conditions. • Applies required procedures for fault and defects ultra vires. • Determines the depreciated, end-of-life parts. • Puts the tool and hardwares whose related operations completed to appropriate places. • Works in accordance with the quality requirements of machine, tool, hardware or systems. • Tracks the physical life of the parts. • Determines the risk factors. • Determines the environmental impacts of the performed operations. • Controls the conformity of performed operations with projected specifications.
<p>11UY0019-4/B1</p>	<p>OPTIONAL</p>	<p>Periodical Maintenance</p> <ul style="list-style-type: none"> • Knows the periodical maintenance opeations to be applied to active and pasive safety hardwares.

		<ul style="list-style-type: none"> • Knows the periodical maintenance operations to be applied to accumulator. • Has knowledge about the technical schemes related to the hardware structure of the vehicles and engine. • Knows the periodical maintenance operations which can be applied to lightening, signal system and electrical circuit. • Has knowledge about parts changed routinely at maintenance operations. • Performs maintenance and repair. • Knows the operations related to the defining specifications of the vehicle to be maintained and repaired. • Has knowledge about procedures related to the evaluation of customer complaints. • Has knowledge about average durations of operations to be performed. • Cleans the oxidation at the junction points of accumulator. • Adjusts acucmulator electrolyte levels during controls. • Performs accumulator charge level and capasity tests. • Measures the current and resistance value of the alternator (charging generator), rotor, stator and dodes. • Performes maintenance and controls of collecting shoes. • Controls the connections of analog/digital displays. • Performs accuracy tests of analog/digital displays. • Controls the headlight, tail lamp and signal lamps. • Controls the selenoid or transistorised regulator (generator regulator). • Repairs the assessed damages of window resistance. • Repairs the troubleshot faults at electric side windows and mirrors. • Adjusts the headlight according to defined measures. • Controls the conductivity of sensor, engine, inflator gas and electrical connections of airbag systems. • Repairs the troubleshot faults at connection and resistances of heating seats. • Controls the operation of the hooter housing and steering wheel connection. • Performs the current and resistance tests of cranking motor. • Controls the strain levels of cranking motor springs. • Performs leakage control at cable and connecions of cranking motor. • Performs periodical maintenance of cental locking system. • Controls the operation of parking sensors in compliance with the standards. • Controls the operation of audiovisual systems. • Controls the wipermotor and adjusts water spraying. • Controls and adjusts the fan belt drive. • Performs required adjustment and changes as a result of performed controls. • Controls the general physical condition of accumulator. • Controls the alternator (charging generator), rotor, stator and dodes. • Defines the maintenance program appropriate for the kilometer, age of the vehicle and the season. • Controls cranking motor pinyon and its installation and starter solenoid. • Controls the starting system carbon and the surface of collector. • Defines the parts to be replaced or maintained repaired according to the customer complaints and demands. • Controls the physcical conditions of safety fuse and fuse holders. • Controls the physical conditions of wiper shoe.
<p>11UY0019-4/B2</p>	<p>OPTIONAL</p>	<p>Troubleshooting and Repair</p> <ul style="list-style-type: none"> • Knows the periodical maintenance operations to be applied to active and pasive safety hardwares. • Knows the periodical maintenance operations to be applied to accumulator. • Knows the periodical maintenance operations to be applied to lightening, signal system and electrical circuit. • Has knowledge about parts changed routinely at maintenance operations. • Knows the periodical maintenance operations to be applied to comfort hardwares. • Has knowledge about appropriate strain levels of cranking motor springs. • Knows the periodical maintenance operations to be applied to starting system (cranking motor). • Knows preliminary operations related to periodical maintenance. • Knows the periodical maintenance operations to be applied to charging system. • Knows the periodical maintenance operations to be applied to warning system. • Cleans the oxidation at the junction points of accumulator. • Adjusts acucmulator electrolyte levels during controls. • Performs accumulator charge level and capasity tests. • Repairs the troubleshot faults as a result of alternator and regulator tests.

		<ul style="list-style-type: none"> • Performs fool loading test on alternator. • Controls the connections of analog/digital displays. • Performs accuracy tests of analog/digital displays. • Controls the headlight, tail lamp and signal lamps. • Repairs the troubleshot faults at lightening system. • Repairs the assessed damages of window resistance. • Repairs the troubleshot faults at electric side windows and mirrors. • Adjusts the angle and brightness of headlights according to standards. • Tests and replaces electronic control unit of airbag. • Controls the conductivity of sensor, engine, inflator gas and electrical connections of airbag systems. • Repairs the troubleshot faults at connection and resistances of heating seats. • Controls the operation of the hooter housing and steering wheel connection. • Controls the rotation number of cranking motor (rpm). • Insulates the connection cables of starting system. • Measures the current level drawn of starting system during starting. • Performs voltage test to regulator. • Controls the wiper motor and adjusts water spraying. • Adjusts the spring and cables at appropriate strain on charging system. • Controls the conformity of resistance and current values of the alternator to the reference values. • Controls the conformity of the current level drawn of starting system during starting to the reference values. • Controls the operation of moving parts at central locking system. • Controls the voltage production of regulator at standard values. • Controls the physical conditions of safety fuse and fuse holders.
<p>11UY0019-4/B3</p>	<p>OPTIONAL</p>	<p>Installation of Optional Device and Accessories</p> <ul style="list-style-type: none"> • Knows the periodical troubleshooting and maintenance operations to be applied to active and passive safety hardwares. • Knows the troubleshooting and maintenance operations to be applied to accumulator. • Knows the troubleshooting and maintenance operations to be applied to lightening, signal system and electric circuit. • Knows the troubleshooting and maintenance operations to be applied to starting system. • Knows the troubleshooting and maintenance operations to be applied to charging system. • Knows the troubleshooting and maintenance operations to be applied to warning system. • Adjusts central locking system for alarm installation. • Installs alarm sensors. • Performs preliminary operations required for installation of optional device and accessories. • Installs optional device and accessories. • Performs in-vehicle preliminary operations required for installation of audiovisual systems. • Installs audiovisual systems and makes electrical connections. • Performs preliminary operations required at bumpers for fog lamp installation. • Installs fog lamp and electrical connections. • Defines positions of sensors for installation. • Controls the appropriate operation of the air condition.
<p>11UY0019-4/B4</p>	<p>OPTIONAL</p>	<p>Training and Development</p> <ul style="list-style-type: none"> • Knows the steps to be followed in case of emergency at the level to explain. • Knows the operations related to the information and evaluation forms. • Has knowledge about training techniques. • Has knowledge about new technologies and developments related to his profession. • Has knowledge of basic first aid. • Knows the national quality legislations and technical standards. • Applies required procedures in case of emergency. • Fills in the training evaluation forms. • Applies the training techniques. • Applies occupational safety precautions. • Performs research operations required for professional and personal development. • Conveys knowledge and experiences to the persons working with.

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

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⁽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 Automotive Electrician (Level 4) Vocational Qualification Certificate, is awarded by Authorised Certification Bodies authorised by Vocational Qualification Authority. The list of Authorised Bodies available at: http://www.myk.gov.tr/ybk	Name and status of the national/regional authority providing accreditation/recognition of the certificate Vocational Qualification Authority (Mesleki Yeterlilik Kurumu) Ziyabey Caddesi 1420. Sokak No:12 Balgat Çankaya/ANKARA TURKIYE www.myk.gov.tr
Level of the certificate (national or international) ISCO 08: 7231 ve 7412 and Level 4- Turkish Qualifications Framework Detailed information on Turkish Qualifications Framework available at: http://www.tyc.gov.tr	Grading scale / Pass requirements It is required that the candidate must be successful at all of the units in at least one of the alternatives below for obtaining Automotive Electrician (Level 4) Vocational Qualification Certificate. I. Alternative: A1, A2, A3, A4, B1, B2, B3, B4 II. Alternative: A1, A2, A3, A4, B1, B2, B3
Access to next level of education/training -	International agreements -
Legal basis 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 4 qualifications for which this certificate herein is issued are defined as "Employee exercises self-management for the work or study activities that are usually predictable, but are subject to change; supervises the routine work of others, taking some responsibility for the evaluation and improvement of work or study activities."

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

Vocational Qualifications Authority

www.myk.gov.tr

www.tyc.gov.tr

Europass

www.europass.gov.tr

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