

1. Title of the certificate ^(TR)
Tren Makinisti Mesleki Yeterlilik Belgesi (Seviye 3)
⁽¹⁾ In the original language

2. Translated title of the certificate ^(EN)
Train Driver VQA Vocational Qualification Certificate (Level3)
⁽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
11UY0035-4/A1	MANDATORY	<p>Basic and Occupational Health and Safety (OHS)</p> <ul style="list-style-type: none"> • Knows the rules related to the occupational health and safety. • Knows general health concept. • Knows the factors influencing health and safety at workplace. • Knows the work accident and occupational diseases. • Analyses the accident and risk analyses. • Explains the dangerous behaviours and situations related to engineer. • Recognizes the risks related to profession of engineering. • Knows the journey safety rules. • Knows the rules related to carriage of hazardous goods. • Lists the types of fire. • Defines the fire extinguishing methods and used materials. • Lists the operations to be performed in case of fire at trains. • Defines the risks influencing occupational health and safety. • Uses health and safety protection and intervention tools when necessary. • Performs operations related to receiving and delivering locomotive/train set in accordance with the safety requirements and occupational safety rules before starting the assignment and at the end of the assignment. • Takes occupational health and safety measures required at work start and business process. • Takes preventive precautions for preventing fire at working environment. • Takes precautions around the fire, informs those concerned and responds to fire when necessary. • Complies with the workplace rules and working principles. • Takes required occupational health and safety precautions while fulfilling duties. • Complies with the workplace rules and working principles. • Makes personal care and complies with hygiene rules.
11UY0035-4/A2	MANDATORY	<p>Shunting and Driving Applications</p> <ul style="list-style-type: none"> • Defines the usage features of mobile phones. • Defines the features of wireless systems. • Remembers the local controlled systems. • Explains the working principles of automatic train stop systems and signal systems. • Remembers the rules that should be obeyed at electrically operated regions. • Explains the contacts of transport vehicles at electrically operated regions. • Recognizes the wayside signal systems. • Recognizes the wayside telecommunication systems. • Recognizes the electrification systems. • Knows professional terms. • Remembers the numbering of tructive stocks. • Remembers the classification of tructive stocks. • Remembers the classification of tructive stocks according to energy types. • Remembers the classification of tructive stocks according to powertrain mechanisms. • Remembers the classification of tructive stocks according to brake systems. • Remembers the classification of tructive stocks according to bogies. • Defines the mechanical parts of tructive stock. • Remembers the classification of tructive stocks. • Recognizes the writing and signs on hauled stocks. • Remembers the classification of hauled stocks. • Defines the main parts and their functions composing hauled stocks. • Defines the errors occurred at hauled stocks. • Defines the mechanical components belonging to brake system at traction vehicles. • Recognizes the suspension systems at tructive and hauled stocks. • Recognizes the fasteners of tructive and hauled stocks.

- Lists the engine classes according to their specialities.
- Defines the terms of engines and their specialities.
- Explains the working principles of the engines.
- Lists the main parts and their functions of diesel engines.
- Lists the liquids used in diesel engines and their specialities.
- Lists the main systems and their functions of diesel engines.
- Defines control regulators of diesel engine.
- Defines the starter of the diesel engine and the systems easing the starter.
- Explains the diesel engine safety circuits and their functions.
- Lists the errors of diesel engine.
- Defines the hydraulic systems of traction vehicles.
- Defines the transmissions used at traction vehicles.
- Defines basic electrical and electronic circuits.
- Lists the types and specialities of electric current.
- Knows the electrical sizes and how to measure.
- Knows the electrical, electronic circuit elements and their usage aims.
- Knows electric machines.
- Lists the safety precautions to be taken against electric current.
- Defines the electrical systems of tractive stocks.
- Lists the brake types and their working principles.
- Defines terms related to compressed air brake technique.
- Defines the compressed air hardwares on tractor vehicles and lists their working principles.
- Defines compressed air production elements and lists their functions.
- Recognizes the safety circuits in which compressed air is used.
- Recognizes the auxiliary circuits in which compressed air is used.
- Recognizes the air brake systems of hauled stocks.
- Defines the brake experiences and brake errors at hauled stocks.
- Lists the savings measures which can be applied at driving train and tractor vehicles.
- Lists the duties, jurisdiction and responsibilities of the train driver.
- Lists the rules to be assigned at trains.
- Knows the jurisdiction and responsibilities of other employees in business relation during assignment.
- Lists the form and registries related to the assignment.
- Lists the operator's cab components of tractor vehicle and explains the functions of these components.
- Lists and defines the digital systems of tractor vehicle.
- Lists the operations that should be performed during preparing tractor vehicle for service.
- Lists the rules related to the usage of multi control of the tractor vehicle.
- Lists the support operations of tractor vehicle.
- Explains how to perform parking and nonworking dispatch operations of tractor vehicle.
- Lists the rules of preparing train for service.
- Lists the journey rules of the trains.
- Remembers the driving techniques of tractor vehicle and train.
- Defines the shunting operations to be performed at service area, shunting areas, warehouses.
- Lists the assignment delivery operations to be realised at the end of the assignment.
- Lists the basic specialities defining road-vehicle interaction and explains their results.
- Defines road-wheel-speed relation and their results.
- Classifies railway according to its specialities.
- Defines the basic technical size and terms influencing road geometry, lists their specialities, explains the relation with train and driving.
- Lists the ideal load transfer conditions at vehicle-road-ground interaction and the factors ruining those.
- Explains the results caused by the ruining of ideal load transfer model.
- Defines the journey restriction term, lists its types and reasons.
- Calculates the lost time from the journey at journey restriction applications.
- Defines the force influencing the road, lists and classifies.
- Defines the parts of the road, lists the specialities and the functions of elements composing the road.
- Defines the attendants at organisational structure of road maintenance and repair organisation.
- Indicates how to inform the authorised persons when s/he observes an unusual situation at road.
- Indicates the conditions at which the road maintenance and repair personnel can travel at tractor vehicle.
- Defines the possible error and deformations which can occur at road and lists their results.
- Explains the relations of the possible error and deformations which can occur at road with train and driving.
- Explains the effects of vehicle driving features on road.
- Lists and defines the facilities at station.
- Lists and defines the operating fittings at station.
- Communicates with those concerned by using wayside telecommunication systems when necessary.
- Informs those concerned about extraordinariness determined visually at wayside telecommunication systems during journey.
- Controls whether the mobile phones run.
- Performs maintenance and control of the batteries of mobile phones.
- Communicates with mobile in accordance with the legislation.
- Informs related units and attendants about malfunctions.
- Controls wayside central controlled signals.
- Uses station control panels and wayside signal system in compliance to the legislation.
- Controls the ATS cab equipment; Informs related units and attendants about defined malfunctions.
- Drives the vehicle without disturbing the operation of signal systems.
- Stops the vehicle immediately when s/he sees shaking at catenary or an extraordinary situation during the journey.
- Makes required notices to the related units and attendants when s/he sees shaking at catenary or an extraordinary situation during the journey.
- Performs changing pantograph operations at foreseen speed in accordance with the rules during the journey.
- Lifts the single pantograph during the journey.
- Lowers the pantographs while being turned at turning bridges.
- Lowers the pantographs while performing traction to electrical vehicles with diesel.
- Turns on the vacuum circuit breaker of the vehicle while passing through neutral (potential free) regions.
- Uses the system in an effective way at electrical train management.

- Understands, speaks and applies professional terms.
- Controls the chassis and auxiliary equipment at chassis of tractive stocks, detects the errors and reports.
- Controls auxiliary equipment at tractive stocks, detects the errors and reports.
- Controls the hauled stocks visually.
- Detect the faults that can be seen clearly as having missing brake shoe, spring fracture while examining the hauled stocks visually and reports.
- Controls the hauled stocks.
- Detect the loading faults that can be seen clearly while examining the hauled stocks visually and reports.
- Defines the speed and journey according to the legislation and instructions to be given by authorities at negotiations occurred during journey at hauled stocks.
- Detects and reports the mechanical faults belonging to brake system at traction vehicles.
- Repairs the simple mechanical faults belonging to brake system at traction vehicles.
- Recognizes the suspension elements.
- Detects and reports the faults of the suspension elements.
- Detects and reports the faults of fasteners of tractive and hauled stocks.
- Controls the engines.
- Detects and reports the faults of the engine.
- Repairs the simple faults as excessive speed arm diverging, regulator stop pin diverging.
- Controls the hydraulic systems.
- Detects and reports the faults at the hydraulic systems.
- Controls the operation of electrical machines.
- Detects, diverges and reports the blown out ones of the switches diverged manually as button, breaker, fuse etc. at electrical machines.
- Takes safety precautions against electric current.
- Detects, diverges and reports the blown out ones of the switches diverged manually as button, breaker, fuse etc. of traction vehicles.
- Controls the brakes.
- Detects, reports and repairs the simple faults which are clearly visible at pneumatic hardwares.
- Controls the pneumatic hardwares visually.
- Repairs the simple mechanical faults as reversing brake shoe belonging to brake system at traction vehicles.
- Detects the faults according to manometer values showing the pneumatic sizes.
- Participates in and performs brake testing.
- Performs the duty in compliance with the legislations.
- Uses her/his authority.
- Acts according to the assignment rules.
- Controls the operator's cab components of traction vehicle.
- Detect and reports the faults of the operator's cab components of traction vehicle.
- Controls the digital systems, automatic train stop system (ATS), train diagnostic system (TDS), train monitoring system (TMS), European railway traffic management system (ERTMS), Closed circuit television system (CCTV), traction vehicle computer (SICAS).
- Detects and reports the faults of the digital systems.
- Responds to and reports the simple faults of the digital systems.
- Controls the traction vehicle and applies the rules on receiving.
- Performs required tests on traction vehicle.
- Reports the malfunctions found during preparation of traction vehicle for service.
- Performs before and after running the traction vehicle.
- Runs the traction vehicle.
- Prepares the traction vehicle for multi control.
- Prepares the traction vehicle for nonworking dispatch.
- Makes support with the traction vehicle.
- Performs interim controls of the traction vehicle during service.
- Delivers the traction vehicle to her/his colleague.
- Delivers the traction vehicle to its warehouse.
- Parks the traction vehicle.
- Reports the malfunctions found at the traction vehicle during service.
- Fills in the form and registries related to the assignment regularly.
- Controls the train and applies the rules on receiving.
- Performs train preparation tests at operator's cab.
- Controls the ones preparing the train for service.
- Controls the train during journey.
- Acts in accordance with the dispatch rules according to traffic systems at the movement of train.
- Takes measures at all kind of malfunction to occur at traction vehicle and train during the journey of the train.
- Drives the train safely.
- Adjusts the speed of the train in accordance with the savings measure and departure arrival charts considering the specifications of the traction vehicle, train and railway route.
- Drives in compliance to the train driving techniques ensuring the safety, comfort and productivity at various road, seasonal and environmental conditions.
- Performs shunting considering the specifications of shunting field and weather conditions with traction vehicle in accordance with the shunting services, shunting layout plan without risking occupational and traffic safety.
- Applies the shunting communication tools and signs.
- Gives written or verbal information related to the performed work at the end of the assignment.
- Performs the speeding, slowing and stopping applications different from each other defined at departure-arrival chart in accordance with the road geometry.
- Applies driving techniques ensuring energy saving by benefiting from the geometrical specifications of the road.
- Does not perform driving practices which can cause derailment on switches.
- Does not perform driving practices which can cause anti-creep.
- Applies correct driving techniques for not causing fault and deformations on the railway.
- Performs driving practices reducing the risks at railway regions having faults and deformations which can be seen visually and occurred on the railway.
- Informs those concerned about railway regions having faults and deformations which can be seen visually and occurred on the railway.

		<ul style="list-style-type: none"> • Prepares the traction vehicles for service, dispatches and manages the train under her/his responsibility in a safe, comfortable and economical way between departure-arrival centers, performs required shunting services. • Follows the new technologies and developments related to his profession. • Performs duties in compliance to the railway traffic safety rules. • Complies with the discipline rules of the occupation. • Uses the communication systems in an effective way. • Complies with the speed limits. • Directs the accompanying driver's assistant to the duties that should be performed. • Monitors whether the employee in charge is on station through the railway for sustaining the safety of the train and traffic. • Monitors whether the other employees working on train are on station for sustaining the safety of the train and traffic, directs them to their duties. • Decides slowing down the speed or being stopped of the train in case of having faults and deformations which can be seen visually and occurred on the tractive and hauled stocks or railway or extraordinary situations that is thought to threaten the safety. • Organizes the required safety applications for ensuing the safety of the stopped train and passengers in case of any accident or extraordinary situation, directs other personnel. Decides safety applications additional to the defined and documented safety applications if necessary. • Makes suggestions about fault, deformation or extraordinary situations observed at elements composing the railway and its surrounding to those concerned. • Analyses and manages risks defined previously and taking place at work environment. • Conveys occupational knowledge and experiences to the persons working with. • Defines training needs of own and accompanying driver's assistant and informs those concerned. • Evaluates the performance of accompanying driver's assistant and informs those concerned about her/his performance.
11UY0035-4/A3	MANDATORY	<p>Railway Traffic and Operating Train</p> <ul style="list-style-type: none"> • Defines the terms of railway industry. • Defines the traffic systems. • Lists the attendants related to traffic. • Defines the colour and the meanings of the signals at CTC system. • Defines the specialities of numbering trains. • Lists the speeds that trains can reach. • Lists the types of trains and defines the superiority orders of the trains. • Knows the movement charts. • Lists the preparation rules of the trains. • Lists the rules related to carriage of hazardous goods. • Lists the places where locomotives will be given at trains. • Lists the places of waggons at trains. • Remembers the restrictions related to the waggons to be given to the train. • Lists the rules of supporting from front and back. • Explains how to calculate the weight and length of the trains. • Remembers the title and numbers of the personnel to be assigned at trains. • Defines the brake weights of locomotive and waggons. • Explains how to calculate braking need of the trains. • Lists the rules on distribution of waggons with brake at trains. • Explains how to perform simple and full braking tests. • Lists the points to take into consideration during passing from the station track. • Lists the rules related to admittance to stations and dispatching from stations of trains. • Lists the rules defining entrance of trains to stations and usage of tracks. • Lists the rules for receiving and giving dispatch order. • Lists the rules for train dispatch from the stations. • Lists the rules related to going through of trains from stations.

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

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⁽¹⁾If applicable

⁽¹⁾ 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 Train Driver (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: 8311 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 the fields of A1,A2,A3,A4, A5 for obtaining Train Driver (Level 4) Vocational Qualification Certificate.
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

11UY0035-4 - 06/11/2013 Rev. No:01

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." "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/>