

Ministry of Education and Science of Ukraine
 National Technical University
 Dnipro University of Technology
 Faculty of Mechanical Engineering
 (faculty)
 Department of Automobiles and Automobile Economy
 (full name)

EXPLANATORY NOTE

qualification work of the degree bachelor
 (bachelor, specialist, master)

student Oukhouya Ismail
 (name)

academic group 274-19-2 IC
 (code)

specialty 274 Automobile transport
 (code and name of specialty)

specialization according to the educational and professional program
«Automobile transport»
 (official name)

on the topic: «Modernization of the car service station in Tinghir with detailed development of the car repair area» 02.06.23 №443-c

Managers	Surname, initials	Rating on a scale		Signature
		rating	institutional	
qualification work	Krivda V.V.	90	Excellent	<i>[Signature]</i>
chapters:				
Technological chapter	Krivda V.V.	85	Good	<i>[Signature]</i>
Service technology chapter	Krivda V.V.	85	Good	<i>[Signature]</i>
Economic chapter	Vagonova O. G.	85	Good	<i>[Signature]</i>
Labor protection chapter	Chebryachko S.I.	85	Good	<i>[Signature]</i>
Reviewer	Litvinova Ya	85	Good	<i>[Signature]</i>
Normocontroller	Yerisov M.M.	85	Good	<i>[Signature]</i>

Dnipro
2023

APPROVED:

Head of Department
cars and automotive Economy
(full name)


(signature)

Bas K.M.
(surname, initials)

« 02 » 06 2023 year

TASK
for qualifying work
degree bachelor
(bachelor, specialist, master)

qualification work of the degree bachelor
(bachelor, specialist, master)


student Oukhouya Ismail academic group 274-19-2 IC
specialty 274 Automobile transport

specialization according to the educational and professional program
«Automobile transport»
(official name)

on the topic: «Modernization of the car service station in Tinghir with detailed development of the car repair area» 02.06.23 №443-c

chapters:	Content	Term implementation
Technological chapter	The project of the reconstruction of the passenger car service station, the calculation of the production building, the selection of equipment for the service area	12.05.23-18.05.23
Repair technology	Development of a technological map with the improvement of the technology of replacing the car's fuel tank	19.05.23-25.05.23
Economic chapter	Calculation of the enterprise, taking into account profitability	26.05.23-31.05.23
Labor protection chapter	Analysis of dangerous and harmful factors at the maintenance station, measures to reduce ergonomic risks during work.	01.06.23-05.06.23

Task issued


(signature of the manager)

Krivda V.V.
(surname, initials)

Date of issue 02.06.2023

Date of submission to the examination board 17.07.2023

Accepted for implementation
(the student's signature)

Oukhouya Ismail
(surname, initials)

ABSTRACT

Explanatory note: 95 pages, 10 figures, 25 tables, 6 appendices, 12 references, graphic part A1 5.

The object of reconstruction is an existing car service station.

The main goal is to improve this station, increase the production area, select equipment for the service and repair zones, implement occupational safety measures, and conduct an economic analysis and calculations considering profitability.

The work involves the reconstruction of the car service station with the layout and zoning of production areas to ensure a higher quality and efficient operation of the facility.





The section on service technology discusses the process of replacing the fuel tank of a Hyundai Accent car. The economic section presents technical and economic calculations for the service station.

Safety measures are also included, including workplace safety methods for the employees of the service station.

PROJECT, TECHNICAL SERVICE STATION, AUTOMOBILE, ENHANCEMENT, TECHNICAL EQUIPMENT

The qualification work on the topic "Modernization of the car service station in Tinghir with detailed development of the car repair area" has been checked for plagiarism using the software <https://unicheck.com/>. The uniqueness score is 97%. The results of the plagiarism check are provided in the appendix F.





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Mea.	Sh.	№ dok.	Signat.	Date		Liter.	Sh.	Sh'x.
					Abstract			
Design.		Oukhouva					✓	✓
Check.		Krivda				Dnipro University of Technology 274:274-19-2 IC		
Superv.		Krivda						
Norm contr.		Yerisov						
Approv.		Bas						

The objectives and tasks set for this qualification work have been achieved. An analysis of the technical condition of the vehicles and the economic activities of the technical service station was carried out. A production program for the maintenance and repair of the cars was calculated. The necessary technological equipment and tools were selected and provided in the service and assembly area. The main potential vehicle malfunctions and the necessary technological equipment for quality repair work in the service area were considered. Measures have been implemented to ensure the safety of technological processes of car maintenance. An economic feasibility calculation of the reconstruction of the technical service station was conducted.

During the analysis of the enterprise's work, deficiencies in the organization of work in the department were identified, and options for their elimination were considered, as well as equipping the department with the necessary technological equipment. The economic effect of implementing the above measures was calculated, as well as the estimated useful life span.

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Norm confr.		Yerisov		
Approv.		Bas		

Conclusions

Liter.	Sh.	Sh.'s.
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