

For defense
[Signature]

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 Mouloudi Abdelhamid
(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: «Reconstruction of a car service station in Tarragona, Spain with detailed design of the tire repair and service area» 02.06.23 №443-c

Managers	Surname, initials	Rating on a scale		Signature
		rating	institutional	
qualification work	Krivda V.V.	87	Good	[Signature]
chapters:				
Technological chapter	Krivda V.V.	87	Good	[Signature]
Service technology chapter	Krivda V.V.	87	Good	[Signature]
Economic chapter	Vagonova O.G.	85	Good	[Signature]
Labor protection chapter	Chebryachko S.I.	85	Good	[Signature]
Reviewer	Litvinova G.A.	85	Good	[Signature]
Normocontroller	Yerisov M.M.	85	Good	[Signature]

Dnipro
2023

APPROVED:

Head of Department
cars and automotive Economy
(full name)

Bas K.M.

(signature)

(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 Mouloudi Abdelhamid 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: «Reconstruction of a car service station in Tarragona, Spain with
detailed design of the tire repair and service 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 car tire maintenance technology	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)

Mouloudi Abdelhamid

(surname, initials)

Explanatory note: 95 pages, 11 figures, 25 tables, 6 appendices, 12 references, graphic part A1 3.

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.

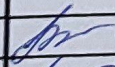


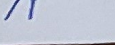
The maintenance technology section examines the process of car tire maintenance. The economic section presents technical and economic calculations for the service station.

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 "Reconstruction of a car service station in Tarragona, Spain with detailed design of the tire repair and service area" has been checked for plagiarism using the software <https://unicheck.com/>. The uniqueness score is 98%. The results of the plagiarism check are provided in the appendix F.

AAE.BT23.02.Abs.EN

Mea.	Sh.	№ dok.	Signat.	Date	Liter.	Sh.	Sh. s.
Design.		Mouloudi					
Check.		Krivda				1	1
Superv.		Krivda			Dnipro University of Technology 274:274-19-2 IC		
Norm contr.		Yerisov					
Approv.		Bas					

Abstract

Пояснювальна записка: 95 с., 11 рис., 25 табл., 6 додатків, 12 джерел, графічною частиною А1 4.

Об'єктом реконструкції є існуюча станція технічного обслуговування легкових автомобілів.

Головна мета полягає у поліпшенні цієї станції, збільшенні обсягу виробничого корпусу, підборі обладнання для зони ТО і ПР, впровадженні технічних заходів з охорони праці, а також проведенні економічного аналізу та розрахунків з урахуванням рентабельності.

Робота передбачає реконструкцію станції технічного обслуговування легкових автомобілів з розрахунком ділянок і зон виробництва, щоб забезпечити більш якісну та ефективну роботу підприємства.

У розділі про технологію обслуговування розглядається процес обслуговування шин автомобіля. В економічній частині представлені техніко-економічні розрахунки для станції технічного обслуговування.

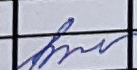
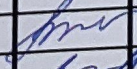



Також передбачені заходи з охорони праці, включаючи методи безпеки праці для працівників станції технічного обслуговування.

ПРОЕКТ, СТАНЦІЯ ТЕХНІЧНОГО ОБСЛУГОВУВАННЯ, АВТОМОБІЛЬ, ВДОСКОНАЛЕННЯ, ТЕХНІЧНЕ ОБЛАДНАННЯ

Кваліфікаційна робота на тему: «Реконструкція станції технічного обслуговування легкових автомобілів в м. Таррагона, Іспанії з детальною розробкою дільниці ремонту та обслуговування шин» пройшла перевірку на плагіат за допомогою програмного забезпечення <https://unicheck.com/uk-ua>. Унікальність склала 98%.

Результати перевірки наведено у додатку F.

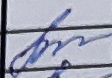

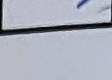
ААГ.КР23.02.Р.ПЗ

Ізм.	Арк.	№ докум.	Підп.	Дата	Літ.	Арк.	Арк.
Розроб.		Мулюді				1	1
Перев.		Кривда			Реферат НТУ «ДП» 274-19-2 ІС		
Керівн.		Кривда					
Н. Контр.		Єрісов					
Затв.		Бас					

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 were implemented to ensure the safety of the technological processes of maintenance of the wheels of a vehicles. 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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Mea.	Sh.	Nº dok.	Signat.	Date	Conclusions	Liter.	Sh.	Sh's.
Design.		Mouloudi						1
Check.		Krivda						
Superv.		Krivda						
Norm contr.		Yerisov						
Approv.		Bas						

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