TECHNICAL MAINTENANCE AND REPAIR OF LPG VEHICLES

(course title)

COURSE SYLLABUS ABSTRACT of higher education institution speciality

	STUDY MODE	
	full-time	part-time (shortened program)
Year	4	4
Semester	7	7
Lectures, hours	12	2
Practical classes (seminars), hours	38	8
Pass/fail, semester	7	7
Contact hours	50	10
Independent study, hours	50	90
Total course duration in hours / credit units	100/3	100/3

<u>1-37 01 07 «Vehicle Service»</u> (speciality code and name)

1. Course outline

The academic discipline includes the study of the design features of gas-balloon vehicles, the arrangement of units, components and devices of gas-balloon equipment and fittings, the technology for carrying out routine maintenance and repair, methods for troubleshooting gas-balloon equipment that occur during operation, as well as labor protection rules and safety precautions when carrying out work on maintenance and repair of gas-balloon vehicles.

2. Course learning outcomes

Upon completion of the course, students will be expected to

know:

advantages and disadvantages of LPG vehicles compared to gasoline and diesel vehicles; marking, requirements and physico-chemical properties of fuel for gas-balloon vehicles; the device and principle of operation of gas-balloon equipment that ensures the efficient operation of an internal combustion engine on gaseous fuel; characteristic malfunctions of elements of gas-balloon equipment and methods for their elimination, the procedure for carrying out adjustment work; types and frequency of maintenance of gas-balloon vehicles; the list and procedure for carrying out maintenance work on the power supply systems of internal combustion engines of gas-balloon vehicles; safety requirements that gas-cylinder vehicles must comply with, which are allowed to participate in traffic on public roads; conditions for storage, maintenance and current repair of gas-balloon vehicles; labor protection rules for a gas-balloon car repairman.

be able to:

perform adjustment work to ensure stable operation of the engine on gaseous fuel at minimum idle speed, in transient modes, to ensure rated power; carry out adjustment work to ensure that the toxicity of the exhaust gases of the engine of a gas-balloon car meets the current standards; draw up technological maps for diagnosing and checking the tightness of the main units and assemblies of gas-balloon equipment. possess:

methods of making managerial decisions in the operation, maintenance and repair of gas-balloon vehicles; methodological bases for ensuring safe working conditions during the operation, maintenance and repair of gas-cylinder vehicles.

3. Competencies

SC-13 Have the ability to use decision-making methods when choosing rational equipment, the need to modernize the existing one, and carry out the necessary calculations.

4. Requirements and forms of midcourse evaluation and summative assessment.

oral-written form: reports on practical work with their oral defense, test.