

Information sheet for the course Operation, maintenance and repair of cars

University: <i>Alexander Dubček University of Trenčín</i>	
Faculty: <i>Faculty of special technology</i>	
Course unit code: <i>SaOA/B/2-41/d</i>	Course unit title: <i>Operation, maintenance and repair of cars</i>
Type of course unit: <i>compulsory</i>	
Planned types, learning activities and teaching methods: <i>State examination subjects, attendance method</i>	
Number of credits: <i>1</i>	
Recommended semester: <i>6th semester in the 3rd year (full-time) 7th semester in the 4th year (part-time)</i>	
Degree of study: <i>I. (bachelor)</i>	
Course prerequisites: <i>SaOA/B/2-39/d Organization and technology for Assistance, SaOA/B/2-32/d car Repair, SaOA/B/2-30/d complete care, SaOA/B/2-36/d Premises techniques.</i>	
Assessment methods: <i>Prerequisites Completed state examinations. Presentation of thesis with the terms in time.</i>	
Learning outcomes of the course unit: <i>Verification of independence and professional preparedness practical field use procedures, methods and means of carrying part of knowledge for solving problems of customer service, comprehensive care, maintenance, repair and operation of machinery and equipment in the field of knowledge SB maintenance of machinery and equipment for the first stage of study.</i>	
Course contents: <i>Organization and technology customer service - Mission, requirements and organization of repair shops and garage, the range of activities maintenance system. Planning, management and control methods of repair process. Garaging and parking cars. Organization of customer service activities and repairers in the economic sphere - financial planning costs, staffing, physical security spare parts, service and logistics activities. Car Repair unbranded products, service concepts. Maintenance, Service & Repair Warranty and during the warranty period. Car service - security work (diagnostics, repair undercarriage parts, car body work, straightening parts of the basic dimensions, headlight adjustment, testing and repair of brakes, engine repair and transmission equipment, inspection prior to MOT). Technical competence and incompetence of the vehicle. Act. 315/1996 Z.z. Technical inspection station. Repairs - technological processes of repair. Principles dismantling work. Washing, cleaning and part of the total cars and special vehicles. Evaluation of technical condition after dismantling. Organization of the vehicle repair process. Summary of methods and techniques renovation components. The technological process of vehicle repair .. Examples of the typical components of cars and special vehicles. Assembly, being held and testing groups and units after repair. Operation in workshops and technical supervision. Comprehensive care - a comprehensive system of care. Creation of comprehensive care. The use of machinery and equipment. Maintenance of machinery. Maintenance - treatment plant and equipment. Repair of machinery and equipment. Evacuation of machinery and equipment. Material security. Technical training people. Storage and corrosion protection. Risk management and security. The human factor in the process of comprehensive care. Premises equipment - Operating properties and characteristics of motor vehicles. Impacts on condition, reliability, safety and economy of operation of motor vehicles. Operation, care and technical diagnostics of individual systems for internal combustion engines of motor vehicles, cooling system, lubrication system, fuel system, the transmission of motor vehicles, clutch, gearbox, auxiliary transmission, transfer case (of rear drive axle, differential), coupling and shafts, frames, axles, wheels, tires, shock absorbers, steering, power steering, brake system, electrical system for motor vehicles.</i>	
Recommended of required reading: <i>CHOVANEC, A., BALOG, J., KIANICOVÁ, M. Technológia a manažment opráv. TnUAD</i>	

Trenčín 2002.

ELIÁŠ, J., JAMRICOVÁ, Z. *Opravy mobilnej techniky. TnUAD Trenčín 2004. ISBN 80-88914-83-3.*

JAMRICOVÁ, Z., STODOLA, J., STODOLA, P. *Diagnostika strojov a zariadení. Vydavateľstvo EDIS, Žilina 2011. ISBN 978-80-554-0385-4.*

CHOVANEK, A. – ELIÁŠ, J. a kol.: *Komplexná starostlivosť o stroje a zariadenia, TnUAD, Trenčín, 2008. ISBN 978-80-8075-351-1.*

CHOVANEK, A., ELIÁŠ, J., JAMRICOVÁ, Z.: *Konštrukcia mobilnej techniky, skriptá TnUAD FŠT, 2003. ISBN 80-88914-64-7.*

ELIÁŠ, J., JAMRICOVÁ, Z. : *Spaľovacie motory mobilnej techniky, skriptá TnUAD FŠT, 2003. ISBN 80-88914-82-5.*

Language: *Slovak*

Remarks:

Subject of the state examination.

Evaluation history

Total number of students being evaluated: 0

A	B	C	D	E	FX
0	0	0	0	0	0

Lecturers: *prof. Ing. Alexej Chovanec, PhD.*

Last modification: *15.4.2014*

Supervisor: *prof. Ing. Alexej Chovanec, PhD., guarantee of the study program „Vehicles Maintenance and Repair“*