

## Learning Outcome

### General Description

Carrying out maintenance, diagnosing anomalies and repairing various mechanical, electrical and electronic systems of light passenger and commercial vehicles as per manufacturer parameters and specifications as well as per safety and environmental protection.

### Main activities

- Analysing mechanical, electrical and electronic systems technical documentation of light passenger and commercial vehicles, namely, electrical schematics and other technical instructions from the manufacturer in order to carry out maintenance, diagnose anomalies, repair and test.
- Carrying out maintenance, diagnosing and repairing anomalies in gasoline and diesel engines, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car steering, suspension and braking systems, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Checking the condition of car wheels and tires, diagnosing anomalies and replacing these using the appropriate techniques and procedures.
- Diagnosing and repairing anomalies in manual and automatic transmission car systems, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in conventional and electronics ignition systems, power, supercharging and antipollution car systems, using the appropriate techniques and

procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.

- Diagnosing and repairing anomalies in car cooling systems and engine lubrication, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car starting and charging systems, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car active safety systems (ABS, EBD and traction control, etc.) and passive safety systems (airbags, seat belt pretensioners, etc.), using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car comfort and safety systems, including central locking, electric windows, windscreen wipers, air conditioning and alarm, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car lights and audible warning systems, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Diagnosing and repairing anomalies in car communication and information systems, using the appropriate techniques and procedures, according to the vehicle's technology as well as regulations and manufacturers' instructions.
- Carrying out fault diagnosis and replacing components in multiplexed systems.
- Checking the condition of wires and plugs of different car electrical and electronic systems, diagnosing and repairing anomalies using the appropriate techniques and procedures.
- Cleaning system components and parts that are under repair or will be repaired while using the appropriate procedures and products according to environmental protection rules.

- Carrying out the maintenance of the work area, taking care and cleaning the equipment, appliances and tools used in the diagnosis of failures and in the repair of vehicle parts and systems.
- Making reports and filling in technical documentation on the activity performed.